

Short CV
Selima Sultana

EDUCATION:

Degree	Institution	Date
Ph.D. Geography*	University of Georgia, Athens	2000
M.S. Urban Planning**	Georgia State University, Atlanta	1993
M.S. Geography***	Jahangirnagar University, Dhaka, Bangladesh	1989
B.S. (Hons.) Geography****	Jahangirnagar University, Dhaka, Bangladesh	1987

* Major in Urban Geography and Geographic Information Systems

** Major in Community Planning and Economic Development

*** Major in City Planning (graduated with **first class first** position)

**** Minor in Economics and Statistics (graduated with **first class second** position)

MAJOR AREAS OF ACADEMIC INTEREST:

Urban and Transport Spatial urban form, job-housing imbalance, spatial mismatch, commuting behavior, sustainable urbanization and transportation, geography of race and ethnicity, and Third World urban growth especially South and Southeast Asia.

GIS and Cartography Theoretical and technical aspects of Geographic Information Systems (GIS) and cartography, GIS and cartographic techniques in urban and transportation research.

Quantitative Methods Theoretical and technical aspects of quantitative methods in geographic research.

COURSES TAUGHT:

GEO301: Urban Geography: Global Patterns

GEO304: Introduction to Transportation Analysis

GEO322: Research Methods in Geography

GEO601: Research Themes in Geography

GEO622: GIS Applications in Urban Planning

GEO631: Transportation Planning

PROFESSIONAL EXPERIENCE/ POSITIONS HELD:

2007- Now: Associate Professor, Department of Geography, UNCG, North Carolina.

2004- 2007: Assistant Professor, Department of Geography, UNCG, North Carolina.

2000-2004: Assistant Professor, Department of Geology/Geography, Auburn University, Alabama.

1999-2000: Instructor, Department of Geography, The University of Georgia, Athens.

1995-1999: Graduate Teaching Assistant, Department of Geography, The University of Georgia, Athens.

1997: GIS Intern, Georgia Environmental Organization (GEO), Atlanta GA.

1993-1994: Intern Planner, Bureau of Planning, City of Atlanta, Georgia.

1992-1993: Research Assistant, Department of Urban Policy, Georgia State University, Atlanta.

THE MOST RECENT PEER-REVIEWED PUBLICATIONS:

- 2008 Weber, J. and **Sultana, S.** "Employment Sprawl, Race, and Journey-to-Work in Birmingham, Alabama." *Southeastern Geographer*. (revised manuscript under review)
- 2008 **Sultana, S.** African-American Settlement Patterns and Mobility Experience in Charlotte, NC. in John Frazer et al. (eds.) *The Neo-African Diaspora in the United States and Canada*. (Forthcoming)
- 2007 **Sultana, S.** *Spatial Planning, Urban Form and Sustainable Transport*, edited by Katie Williams, Ashgate Publishing Limited, 2005. *Growth and Change*. (Forthcoming)
- 2007 **Sultana, S.** and Weber, J. "Journey-to-Work Patterns in the Age of Sprawl: Evidence from Two Midsize Southern Metropolitan Areas." *The Professional Geographer*, Vol. 59 (2), pp. 193-208.
- 2006 Weber, J., **Sultana, S.** and Maret, I. "Urban Sprawl, Commuting, and Access to Public Transportation in the Southeast." *Papers and Proceedings of the Applied Geography Conference*, Vol. 29, pp. 282-291.
- 2006 **Sultana, S.** "What About Dual-Earner Households in Jobs-Housing Balance Research? An Essential Issue in Transport Geography." *Journal of Transport Geography*, Vol. 14, pp. 393-395.
- 2006 **Sultana, S.** GIS: Geographic Information Systems for the Social Sciences: Investigating Space and Place by Stevens J. Steinberg and Shila L. Steinberg. Sage Publications, 2006. *Journal of Cultural Geography*, Vol. 24(1), pp. 121-122. (Book Review)
- 2006 **Sultana, S.** and Miller P. "Hispanic Immigrant Clusters and the Local Labor Market: Preliminary Evidence from North Carolina." *The North Carolina Geographer*, Vol. 13, pp. 44-56.
- 2006 Johnston-Anumonwo, I. and **Sultana, S.** "Race, Location and Access to Employment in Buffalo, NY." in John Frazer (eds.) *Race/Ethnicity and Place*. PP. 119-130.
- 2005 **Sultana, S.** "Effects of Dual-earners Households on Metropolitan Commuting: Evidence From Metropolitan Atlanta" *Urban Geography*, Vol. 26(4), pp. 328-352.
- 2005 **Sultana, S.**, Hare, J., and Weber, J. "The Relationship of Income, Density, and Commuting Times on Overweight/Obesity Rates in North Carolina." *Papers and Proceedings of the Applied Geography Conference*, Vol. 28, pp. 254-263.

- 2005 Talbot, M. R. and **Sultana, S.** "The Relationship between Pedestrian Deaths and Metropolitan Areas with High Density Vehicle Use." *Papers and Proceedings of the Applied Geography Conference*, Vol. 28, pp.264-272.
- 2005 **Sultana, S.** 2005. "Social Change and Sustainable Transport" by William R. Black and Peter Nijkamp (Eds), Indiana University Press, 2002. *Annals of the Association of American Geographers*. Vol. 95 (2), pp.487-489 (Book review).
- 2005 Weber, J. and **Sultana, S.** 2005. "Impact of Sprawl on Commuting in Alabama." University Transportation Center for Alabama, Report no. 04108. The University of Alabama. <http://utca.eng.ua.edu>.
- 2005 **Sultana, S.** 2005. "Racial Variation in Males Commuting time: What does the Evidence Suggest?" *The Professional Geographer*, Vol. 57(1), pp. 66-82.
- 2004 **Sultana, S.** and Marzen, L. J. "Quantifying Urban Encroachment in Dhaka, Bangladesh from 1989-2000". *Papers and Proceedings of the Applied Geography Conference*, Vol. 27, pp.231-238.
- 2004 Adri, N. and **Sultana, S.** "Grameen Bank's Housing Program for Rural Poor in Bangladesh: A Case Study". *Papers and Proceedings of the Applied Geography Conference*, Vol. 27, pp.247-253.
- 2003 **Sultana, S.** "Commuting Constraints of Black Female Workers in Atlanta: An Examination of Spatial Mismatch Hypothesis in Married-couple Dual-earner Households," *Southeastern Geographer*, Vol. 43 (2), pp. 249-259.
- 2003 **Sultana, S.** and Chaney, P. "Impact of Urban Sprawl on Travel Behaviors and Local Watersheds in the Auburn-Opelika Metropolitan Area: A Case Study on a Small MSA." *Papers and Proceedings of the Applied Geography Conference*, Vol. 26, pp. 20-28.
- 2002 **Sultana, S.** "Jobs-Housing Imbalance and Commuting in the Atlanta Metropolitan Area: Exploration of Causes of Longer Commuting," *Urban Geography*, Vol. 23 (8), pp. 728-749.
- 2002 **Sultana, S.** "Intra-Regional Variations of Commuting Times in a Decentralized Urban Area," *Papers and Proceedings of the Applied Geography Conference*, Vol. 25, pp. 183-189.
- 2000 **Sultana, S.** "Some Effects of Employment Centers on Commuting Times in the Atlanta Metropolitan Area, 1990," *Southeastern Geographer*, Vol. 41, No. 2, pp. 225-233.

GRANT ACTIVITIES:

2007-2008: Measuring Accessibility of Bicycle Riders in Greensboro: Searching for a more Sustainable Transport System. Undergraduate Research Assistantship at UNCG, \$2000, PI.

2006-2007: "The Journey to School by K-12 children: Assessing the Needs of a Sustainable School Transport

System.” \$4,000, Summer Research Excellence Grant, University of North Carolina at Greensboro, PI.

2006-2007: “Measuring Bicycling Accessibility to Work and Shopping Locations for Greensboro Residents,” Undergraduate Research Assistantship at UNCG, \$2000, PI.

2006-2007: “Urban Spatial Form and Travel Behavior: An Assessment for Dhaka, Bangladesh to Reduce Traffic Congestion and Air Pollution.” \$20,000, National Geographic Society, PI with Sharmin Neelormi, Department of Economics, Jahangirnagar University, Dhaka, Bangladesh.

2006-2008: “Measuring Accessibility of Bicycle Riders in NC: Searching for a more sustainable transport system.” \$127,400, NC Department of Transportation. PI with Joe Weber. (Decline)

2007-2008: “Creating a Performance Index for Bicycle Transportation.” \$77,382, University Transportation Center for Alabama (UTCA), University of Alabama. PI with Joe Weber at University of Alabama. (Decline)

2006-2007: “Accessibility to Emergency Shelter in Alabama.” \$74,000, University Transportation Center for Alabama (UTCA), University of Alabama. PI with Joe Weber at University of Alabama.

2005-2006: “Mapping Job-Housing Balance in Sprawl Areas and their Relationship to Commuting Patterns: A Case Study of the Greensboro--Winston-Salem—High Point MSA.” \$4,160. New Faculty Grant, University of North Carolina at Greensboro, PI.

2005 (Summer): “Assessing the Impact of Dual-earner Households on Urban Commuting Flows and their Implications Job/Housing Concept in Urban and Transport Policy.” \$4,000, Summer Research Excellence Grant, University of North Carolina at Greensboro, PI.

2004-2006: “Do Information and Telecommunication Technologies Lead to Sustainability or Unregulated Urban Growth? An Assessment,” \$53,286, Auburn University Environmental Institute, PI with Dian Hite at AU Agriculture Economics. (Withdrew from the committee)

2003: “Urbanization Effects on Water Quality, Biodiversity, and Public Policy: An Integrated Approach to Modeling Land Use Change,” \$1.9 million, NSF, CPI with B. G. Lockaby, D. Zhang, J. McDaniel, and others at AU Forestry (Declined).

2003-2004: “An Assessment of Urban Sprawl on K-12 School Transportation,” \$10,000, Dean Research Initiative Grant at Auburn University, PI.

2003-2004: “The Impact of Sprawl on Commuting,” \$20,000, University Transportation Center for Alabama at University of Alabama. PI with Joe Weber, University of Alabama.

2003-2005: “Spatial Analysis and Land Use History in West Georgia,” \$88,488, Auburn Peak of Excellence Research, Auburn University. PI with Josh McDaniel at Forestry.

2003: “Accessibility in Space and Time: A GIS Approach,” \$500, Center for Spatially Integrated Social Science Workshop Programs and Scholarships, Ohio State University.

2003: “Urban Spatial Form and Commuting: An Alternative Measure to Reduce Traffic Congestion and Air Pollution,” \$10,000, Competitive Research Grant, Auburn University Office of the Research, Principal Investigator (declined)

2002: "Urbanization Effects on Water Quality, Biodiversity, and Community Welfare: An Integrated Approach to Modeling Land Use Change." \$1.5 million, National Science Foundation, Senior Research Faculty/ Co-principal Investigators with B. G. Lockaby, D. Zhang, J. McDaniel, and others (declined).

2002: "Diversity in the Age of Globalization." \$505,253, Undergraduate International Studies and Foreign Language grant for developing Global Studies program, faculty affiliate with Kelly Alley and others (declined).

2002: "Cultural Models of the Environment and Land Use Change Along an Urban-Rural Gradient." \$50,000, Center for Forest Sustainability, Auburn University, faculty affiliate with Kelly Alley in Anthropology and Josh McDaniel, Forestry.

2002: "The Geography Faculty Development Alliance". National Science Foundation, (amount covered entire cost of travel, accommodation, and food to participate in workshop at the University of Colorado, Boulder plus \$400 honorarium).

2002. "Mapping Change: Using GIS and Remote Sensing for Modeling Sustainable Urban Forms," \$6,000, Competitive Research Grant at Auburn University. Principal Investigator (Grant not funded).

2001: "Sustainable Eufaula Project Grant to assess recreation and environmental aspect in Eufaula," \$60,000, Senior Research Faculty with PI Michael Robinson, Department of Landscape Architecture.

2001: "Mapping Change: Using GIS for Modeling Sustainability," \$4,000, Faculty Mentoring Grant at Auburn University. Principal Investigator (Declined).

PAPER PRESENTATIONS WITH PUBLISHED ABSTRACTS:

Sultana, S. 2007. The Journey to School by K-12 Children: Why Fewer Children are Riding the School Bus? *The Annual Meeting of the Association of American Geographers* in San Francisco, CA, April 7-11.

Weber J. and Sultana, S. 2006. "Urban Sprawl and Accessibility to Employment in Birmingham." *Southeastern Division Association of American Geographers Meeting* in Morgantown, WV, Nov. 19-21.

Sultana, S. and Weber, J. 2006. "Accessibility to Employment Centers from Segregated Neighborhoods in Atlanta." *Southeastern Division Association of American Geographers Meeting* in Morgantown, WV, Nov. 19-21.

Sultana, S. (invited). 2006 "Intra-Urban Job Accessibility for Hispanic Workers in Charlotte metropolitan area, North Carolina." Conference on *Race/Ethnicity and Place* at Texas State University, San Marcos, Texas, Nov. 1-4.

Weber, J., Sultana, S. and Maret, I. 2006. "Urban Sprawl, Commuting, and Access to Public Transportation in The Southeast." *The 28th Annual Applied Geography Conference* at Tampa, Oct 11-14.

Sultana, S. and Weber, J. 2006. Exploring the links between sprawl, race and commuting: does job sprawl reduce the distance between the home and workplace? *The Annual Meeting of the Association of American Geographers* in Chicago, IL, March 7-11.

- Weber, J. and Sultana, S. 2006. Urban Sprawl and Employment Accessibility in the Metropolitan South. *The Annual Meeting of the Association of American Geographers* in Chicago, IL, March 7-11.
- Sultana, S. and Weber, J. 2005. Employment Sprawl and Journey to Work Pattern. *Southeastern Division Association of American Geographers Meeting* in West Palm Beach, FL, Nov. 20-22.
- Weber, J. and Sultana, S. 2005. A Fine Scale Analysis of Sprawl and Commuting. *Southeastern Division Association of American Geographers Meeting* in West Palm Beach, FL, Nov. 20-22.
- Sultana, S., Hare, J., and Weber, J. 2005. The Relationship of Income, Density, and Commuting Times on Overweight/Obesity Rates in North Carolina. *The 28th Annual Applied Geography Conference* at Washington DC, Nov. 2-6.
- Talbot, M. R. and Sultana, S. 2005. The Relationship between Pedestrian Deaths and Metropolitan Areas With High Density Vehicle Use. *The 28th Annual Applied Geography Conference* at Washington DC, Nov. 2-6.
- Miller, J. and Sultana, S. 2005. Mass-transit and Density: Examining the Relationship by MSA. *The 28th Annual Applied Geography Conference* at Washington DC, Nov. 2-6.
- Sultana, S. and Weber J. 2005. Measuring Job Accessibility in Segregated Neighborhoods in Atlanta. *The Annual Meeting of the Association of American Geographers* in Denver, CO, April 5-10.
- Johnston-Anumonwo, I. and Sultana, S. 2005.. *The Annual Meeting of the Association of American Geographers* in Denver, CO, April 5-10.
- Weber, J. and Sultana, S. 2005. The Impact of Urban Sprawl on Commuting Behavior. *The Annual Meeting of the Association of American Geographers* in Denver, CO, April 5-10.
- Sultana, S. 2004. Are Dual-earner Households a constraint for integrating Job/Housing Balances concepts in Urban and Transport Policy? *Southeastern Division Association of American Geographers Meeting* in Biloxi, MS, Nov. 21-23.
- Sultana, S. and Marzen, L. J. 2004. Quantifying Urban Encroachment in Dhaka, Bangladesh from 1989-2000. *The 27th Annual Applied Geography Conference* at St. Louis, MO, October 20-24.
- Adri, N. and Sultana, S. 2004. Grameen Bank's Housing Program for Rural Poor in Bangladesh: A Case Study. *The 27th Annual Applied Geography Conference* at St. Louis, MO, October 20-24.
- Johnston-Anumonwo, I. and Sultana, S. 2004. Race, Location and Access to Employment in Buffalo, NY. Conference on Race/Ethnicity and Place, Howard University Campus, Washington, DC., September 16-18.
- Sultana, S. 2004. "Examining the Modifiable Areal Unit Problem in Measuring Residential Segregation: A GIS Application in Social Science." The First GIS Symposium at Troy State University, Troy, AL. May 19-20, 2004.
- Sultana, S. and Weber, J. 2004. "Urban Sprawl and the Cost of Commuting: Evidence from Small Metropolitan Areas in the USA" The International Conference on Urban Regeneration and Sustainability, June 16-19.

- Sultana, S. and George, S. 2004. "Impact of Information Technology on Travel Behavior: Reducing the Commuting Cost?" *The Annual Meeting of the Association of American Geographers* in Philadelphia, PA, March 14-19.
- Marzen, L. and Sultana, S. 2004. "Remote Sensing Analysis of Urban Encroachment in Dhaka, Bangladesh" *The Annual Meeting of the Association of American Geographers* in Philadelphia, PA, March 14-19.
- Weber, J. and Sultana, S. 2004. "Impact of Sprawl on Children School-trip" *The Annual Meeting of the Association of American Geographers* in Philadelphia, PA, March 14-19.
- Sultana, S. and Chaney, P. 2003. "Urban Sprawl and Commuting: Measuring the Relationships between the Home and Workplace in a Small Metropolitan Area." *Southeastern Division Association of American Geographers Meeting* in Charlotte, Nov. 23-25.
- Sultana, S. and Chaney, P. 2003. "Impact of Urban Sprawl on Travel Behaviors and Local Watersheds in the Auburn-Opelika Metropolitan Area: A Case Study on a Small MSA." *Applied Geography Conference* in Colorado Springs, CO, Nov. 5-8.
- Sultana, S. 2003. "The Effects of Scale Issue on Measuring Job/Housing Imbalance: A Methodological Debate by Using GIS." *The Annual Meeting of the Alabama Academy of Science* in Jacksonville, AL, March 19-22.
- Krunvand, A. and Sultana, S. 2003. "The Effects of Urbanization on rare Species in Muscogee, Harris, and Meriwether Counties in Georgia." *The Annual Meeting of the Alabama Academy of Science* in Jacksonville, AL, March 19-22.
- Sultana, S. 2003. "The Effects of Spatial Urban Form on Metropolitan Commuting: A Reexamination of Metropolitan Atlanta." *The Annual Meeting of the Association of American Geographers* in New Orleans, LA, March 4-8.
- Sultana, S. 2002. "Commuting Constraints of Black Female Workers in Atlanta: An Examination of Spatial Mismatch Hypothesis from Married-couple Dual-earner Households," *Southeastern Division Association of American Geographers Meeting* in Richmond, VA, Nov.23-26.
- Sultana, S. 2002. "Intra-Regional Variations of Commuting Times in a Decentralized Urban Area," *Applied Geography Conference* in Binghamton, NY, Oct. 23-26.
- Sultana, S. 2002. "Racial Variations of Males' Commuting Times in Atlanta: What Does the Evidence Suggest?" *The Annual Meeting of the Association of American Geographers* in Los Angeles, CA, March 19-23.
- Sultana, S., Mastin, W. and Dough, D. 2001. "'The Loveliest Village on the Plain': Auburn's Transition from College Town to Industrial Town." *Southeastern Division Association of American Geographers Meeting* in Lexington, KY, Nov. 17-20, 2001.
- Sultana, S. and Wheeler, J. O. 2000. "Some Effects of Employment Centers on Commuting Times in the Atlanta Metropolitan Area," *Southeastern Division Association of American Geographers*, November 19-22, Chapel Hill, NC.

Sultana, S. 2000. "Effects of Metropolitan Spatial Structure on Commuting." *Applied Geography Conference* in Tampa, FL, Oct 11-13.

Sultana, S. 2000. "Effects of Dual-earners Households in Metropolitan Commuting." *Annual Meeting to the Association of American Geographers*, April 4-8, Pittsburgh.

Sultana, S. and Neelormi, S. 2000. "DHAKA: Rapid Urbanization, Environmental Pollution and A Policy towards a Sustainable Urban Structure." *Georgia Academy of Science Conference* at Valdosta State University, Georgia, March.

Sultana, S. and Neelormi, S. 2000. "DHAKA: Rapid Urbanization, Environmental Pollution and A Policy towards a Sustainable Urban Structure." *First International Conference of Bangladesh Environment*, Bangladesh Institute of Technology, January 14-15, Dhaka, Bangladesh.

Sultana, S. 1999. "Jobs-Housing Imbalance and Commuting in Metropolitan Atlanta: Exploration of Causes of Longer Commuting." *Southeastern Division Association of American Geographers* (in Honors session), Tampa, Nov 22-24.

Sultana, S. 1999. "Jobs-Housing Imbalance/Mismatch and Commuting in Metropolitan Atlanta: Exploration of Causes of Excess Commuting." *29th Annual Meeting of Urban Affairs Association*, Kentucky, April 14-17.

Sultana, S. 1998. "Potential of Using GIS in Planning School Districts." *Meeting to the Association of American Geographers*, Boston, Massachusetts, March 26- 29.

Sultana, S. 1997. "Toward a Sustainable City: A Case Study of Dhaka City." *Annual Meeting of the 20th International Third World Studies Conference*, Omaha, Nebraska, October 9-11.

Sultana, S. 1997. "Demographic and Housing Diversity in the City of Atlanta: An Empirical Analysis." *Meeting of the Association of American Geographers*, Fort Worth, Texas, April 1-5.

Sultana, S. 1996. "Modeling Housing and Demographic Diversity by Using GIS." *Meeting of the Southeastern Division of the Association of Geographers*, University of Georgia, Athens, Georgia, November 26-28.

Beaver, R., Strait, J. and Sultana, S. 1995. "Contemporary Characteristics of Racially Sectorized Residential Space in the Metropolitan Atlanta." *Annual Meeting of the Association of American Geographers*, Chicago, March 14-18.