

SHEA ROSE
Department of Geosciences
University of West Georgia
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Education

Ph.D. Geography Florida State University Tallahassee, FL	2008
<i>Dissertation Topic: Spatial Analysis of Lightning Strikes in the Greater Atlanta Region</i> <i>Advisor: Jon Anthony Stallins</i>	
Graduate Coursework, Geography The University of Maryland College Park, MD	1999-2000
B.A. Energy and Environmental Studies The Evergreen State College Olympia, WA	1996
<i>Project Topic: A Digital Temperature Network for Remote Heat Flow Monitoring</i> <i>Advisor: Rob Knapp</i>	

Areas of Specialization

Geostatistical Analysis Techniques; Cartographic Visualization; GIS Applications
Urban Climatology and Planning; Human-Environment Interactions

Academic Positions

Assistant Professor Department of Geosciences University of West Georgia	Fall 2008 - Present
Graduate Teaching Assistant Department of Geography Florida State University	Fall 2007 - Summer 2008
Graduate Research Assistant Department of Geography Florida State University	Spring 2004 - Summer 2007
GIS Lab Assistant College of Social Sciences Florida State University	Fall 2002 - Fall 2003

Research Associate
Heat Island Group
Berkeley Lab and Washington, D.C. office

February 1998 – August 2002

Graduate Teaching Assistant
Department of Geography
The University of Maryland

Fall 1999 – Spring 2000

Research Assistant
Building Envelopes Program
Oak Ridge National Laboratory

Fall 1996

Publications

Journal Articles

Rose, S., Stallins, J.A. and Bentley, M. 2008. Climatological and Single-Event Scale Visualizations of Urban Cloud-to-Ground Flashes in Atlanta, Georgia. *Earth Interactions*.

Stallins, J.A., and Rose, S. 2008. Urban Lightning: Current Research, Methods, and the Geographical Perspective. *Geography Compass*.

Stallins, J. A., Bentley, M. L. and Rose, L. S. 2006. The Extent of Urban-Modified Cloud-to-Ground Flash Characteristics for Atlanta, Georgia (USA) from 1992-2003. *Climate Research*. Volume 30, Pages 99-112.

Akbari, H., Rose, L. S. and Taha, H. 2003. Analyzing the land cover of an urban environment using high-resolution orthophotos. *Landscape and Urban Planning*. Volume 63, Issue 1, Pages 1-14.

Berdahl, P., Akbari, H., and Rose, L. S. 2002. Aging of reflective roofs: Soot Deposition. *Applied Optics*. Volume 41, Issue 12, Page 2355.

Technical Reports

Rose, L. S., Akbari, H., and Taha, H. 2003. Characterizing the Fabric of the Urban Environment: A Case Study of Greater Houston, Texas. LBNL-51448. Berkeley, CA.

Akbari, H. and Rose, L. S. 2001. Characterizing the Fabric of the Urban Environment: A Case Study of Metropolitan Chicago, Illinois. LBNL-9275. Berkeley, CA.

Akbari, H., Rose, L. S., and Taha, H. 1999. Characterizing the Fabric of the Urban Environment: A Case Study of Sacramento, California. LBNL-44688. Berkeley, CA.

Rose, L.S. 1996. Plan for Collecting Data for an Assessment of Moisture Control Strategies in Low-Slope Roofing Systems, ORNL/M-5812. Oak Ridge, TN.

In Progress

Rose, L.S. An Examination of Urban Effects on Frontal Storms in the Atlanta, GA (US) Region.

March 21, 2009

Teaching Experience

The University of West Georgia GEO1113/1113L: Landforms Geography/Lab	Fall 2008
GEO4554/5554: Computer Cartography GEO1112/1112L: Weather and Climate/Lab	Spring 2009
GEO2505: Human Impacts on the Environment GEO2083: Intro to Geographic Analysis	
The Florida State University GEO3015: Map Analysis (Distance Learning, in prep)	Fall 2007 – Spring 2008
GEO1331: Environmental Science	Summers 2005 - 2008
GEA1000: World Regional Geography	Summer 2004
The University of Maryland GEO472: Advanced Remote Sensing, Lab Section	Spring 2000
GEO372: Remote Sensing, Lab Section	Fall 1999

Conference Presentations

Rose, L.S. 2007. An event-based climatology of cloud-to-ground flash patterns for Atlanta, Georgia: Initial assessment of elevation effects. Special paper session on Climatology and Hazards of Severe Weather, Annual Meeting of the Association of American Geographers. San Francisco, CA.

Stallins, J.A., Rose, S. and Bentley, M. 2006. Delineating Urban-Enhanced Lightning Production: an Approach Using Flash-Defined Thunderstorm Tracks. Special paper session on Climatology and Hazards of Severe Weather, Annual Meeting of the Association of American Geographers. Chicago, IL.

Stallins, J.A. and Rose, L.S. 2005. The Extent of Urban-Modified Lightning Production for Atlanta, Georgia. Special paper session on Urban Climate, Annual Meeting of the Association of American Geographers. Denver, CO.

Professional Experience

Computer Aided Drafting Department Manager
Webb Detailing, Dothan, AL
March 1997 - January 1998
Transitioned the company to increased usage of computer-aided drafting. Drafted technical drawings for fabrication. Maintained hardware and software systems.

Tutor for Pathways Program
Wallace College, Dothan, AL
1993-1996 (intermittent)
Assisted underprivileged students with various courses including math, English, and biology. Maintained detailed progress and attendance records. Certified Level I tutor in the state of Alabama.

Honors and Awards

Phi Kappa Phi	April 2005
DOE's Science and Engineering Research Appointment	Fall 1996

Grants

"A GIS Analysis of Environmental Factors Associated with West Nile Virus Infections in Humans", Student Research Assistance Program, University of West Georgia (April, 2009), \$2250.

Professional Affiliations

American Society of Photogrammetry and Remote Sensing
Secretary (2006-2007) for the FSU student chapter
Association of American Geographers
Specialty Groups: Climate, Energy and Environment, Geographic Information
Systems, Hazards, and Remote Sensing
Phi Kappa Phi Academic Honor Society
Southeastern Division of the Association of American Geographers

Items Featuring Research

EPA. Heat Island Pilot Project. www.epa.gov/heatisland/pilot/sacto_urbanfabric.html

Houston Advanced Research Center. 2004. Cool Houston! A Plan for Cooling the Region. The Woodlands, Texas. www.harc.edu/harc/Projects/CoolHouston.

Bowman, Chris. October 3, 2000. Changes in urban landscape can cut smog. Sacramento Bee.

Sacramento Tree Foundation. 2000. State of the trees report: A Call to Action for the Sacramento Region. www.sactree.com/aboutUs/state-of-trees.pdf.

Volunteer Service

The University of West Georgia, Townsend Center Community Production of "The Not So Scary Fairy Tales" Carrollton, GA	October 2008
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Grassroots School (K-8) Tallahassee, FL.	2005 - 2007
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Energy Outreach Center Olympia, WA.	Fall 1995
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Computer Skills

ArcGIS, AutoCAD, ERDAS, GeoDa, IDRISI, LabVIEW, MS ACCESS, SPLUS, Visual Basic.

March 21, 2009