

# STEVE GRAHAM

## CONTACT INFORMATION

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## EDUCATION

Ph.D. Geological Sciences - The University of Texas at Austin  
“Continental river routing for fully coupled climate system models” 2000.

B.S. Geological Sciences and Environmental Studies - Tufts University 1993.

## EXPERIENCE

- University of Minnesota Duluth*
- 2008-present Research Associate Geographic Information Sciences Laboratory - Research and support of funded projects emphasizing GIS and spatial analysis, custom programming, and web development and data dissemination.
- Penn State*
- 2007-2008 Assistant Director GIA Core, Senior GIS Programmer/Analyst: (Population Research Institute) - Research and support emphasizing GIS and spatial analysis and statistics. Custom programming. Post-award project management.
- 2004-2007 Assistant Director GIA Core, GIS Programmer/Analyst: (Population Research Institute) - Research and support emphasizing GIS and spatial analysis and statistics. Custom programming.
- 2002-2004 Research Associate (Penn State Institutes of the Environment): Research and support emphasizing GIS, hydrologic modeling, and web development.
- 2000-2004 GIS Analyst (Population Research Institute): Research and support emphasizing GIS, spatial analysis, and statistics.
- 2000 Research Associate (Civil and Environmental Engineering): Development of web-based virtual field trips for river basins.
- 2000 Teaching Assistant (Center for Academic Computing): Interactive computer seminars and labs involving web development and other application software.
- The University of Texas at Austin Department of Geological Sciences*
- 1994-2000 Graduate Research Assistant: Continental River Routing for Fully Coupled Climate System Models. Research and model development using GIS and environmental data.

## PROFESSIONAL AFFILIATIONS

Minnesota GIS/LIS Consortium

## DISTINCTIONS

University of Texas Pre-emptive Fellowship, 1994-95  
NASA Earth System Science Graduate Student Fellowship, 1996-99

## PUBLICATIONS

- Shorr, N., A. Amato, **S. Graham**, and R. Najjar. 2008. Climate change impacts on household heating and cooling in the Northeast US compared to those of purposive behaviors. Submitted to *Climate Research*.
- Najjar, R. G., L. Patterson and **S. Graham**. 2008. Climate simulations of major estuarine watersheds in the Mid-Atlantic region of the United States. Accepted by *Climatic Change*.
- Graham, Stephen Thomas**, *Continental river routing for fully coupled climate system models*, Dissertation, 2000.
- Graham , S. T.**, J. S. Famiglietti, and D. R. Maidment, 5-Minute, 1/2°, and 1° Data Sets of Continental Watersheds and River Networks for Use in Regional and Global Hydrologic and Climate System Modeling Studies, *Water Resources Research*, 35(2), 583-587, 1999.
- Graham , S. T.**, J. S. Famiglietti, and D. R. Maidment, 5-Minute, 1/2-Degree, and 1-Degree Data Sets of Continental Watersheds and River Networks for Use in Regional and Global Hydrologic and Climate System Modeling Studies, in Short Course on Geographic Information Systems (GIS) in Hydrology and Hydrometeorology, *The 79<sup>th</sup> AMS Annual Meeting and Exhibition, Program*, American Meteorological Society, 24, 1999.
- Graham , S. T.**, J. S. Famiglietti, and D. R. Maidment, A new 5-minute dataset of continental drainage basins and river channels for use in global hydrologic and climate modeling studies, *Eos, Transactions*, American Geophysical Union, 1997 Fall Meeting, 48(46), F269, 1997.
- Devereaux, J. A., J. S. Famiglietti, M. L. Branstetter, **S. T. Graham**, K. I. Mohr, M. Rodell, G. Kim, D. Miller, E. Amano, J. Levine, R. Reichle, and T. J. Jackson, Correlation of remotely-sensed soil moisture content with gravimetric and impedance probe measurements at two sites during SGP97, *Eos, Transactions*, American Geophysical Union, 1997 Fall Meeting, 48(46), F295, 1997.
- Famiglietti, J. S., J. A. Devereaux, C. A. Laymon, T. Tsegaye, P. R. Houser, T. J. Jackson, **S. T. Graham**, M. Rodell, and P. J. van Oevelen, Ground-based investigation of soil moisture variability within remote sensing footprints during the Southern Great Plains 1997 (SGP97) Hydrology Experiment, *Water Resources Research*, 35(6), 1839-1851, 1999.
- Famiglietti, J. S., J. A. Devereaux, C. Laymon, T. Tsegaye, P. R. Houser, T. J. Jackson, M. L. Branstetter, **S. T. Graham**, D. Miller, B. Mohanty, K. I. Mohr, M. Rodell, G. Kim, J. Levine, and E. Amano, Ground-based investigation of subgrid-scale spatial-temporal soil moisture variability in support of SGP '97, *Eos, Transactions*, American Geophysical Union, 1997 Fall Meeting, 48(46), F266, 1997.

## **PRESENTATIONS / LECTURES**

Instructor - GIS and Population Science Advanced Spatial Analysis Workshop: *Geographically Weighted Regression* (University Park, PA; June 1 - June 6, 2008)

Instructor - GIS and Population Science Workshop 2006 (University Park, PA; June 4- June 16, 2006)

Instructor - GIS and Population Science Workshop 2005 (University Park, PA; May 29 - June 11, 2005)

Instructor - Population Science and GIS 2003 CSISS Workshop (University Park, PA; May 19 - May 23, 2003)

Instructor - PAA 2002 GIS and Spatial Analysis: *Demographic Applications* (Atlanta, GA; May 8, 2002)

Instructor - PAA 2002 GIS and Spatial Analysis: *Demographic Applications* (Fairfax, VA; March 28, 2001)

Instructor - FEMA Dam Safety training: HEC-HMS (multiple locations; 2001-2006)