

# *Tim G. Frazier*

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## *Curriculum Vitae*

### **Summary**

My main field of research and teaching encompasses the domain of **nature/society** or **human/environment interactions**. Specific areas of emphasis include hazards as they relate to **climate change** with the greater body of my research focusing on **coastal hazards, urban development, and GIS**. I am most interested in pursuing research and teaching in topical areas that intersect: climate change, hazards, urban planning, and GIS.

### **Education**

**Doctor of Philosophy** in Geography, *Expected Fall 2008*

The Pennsylvania State University: University Park, PA

Dissertation: Mitigating Inter- and Intra-Community Geospatially Dependant Vulnerability through the Enhancement of Network Resilience: A Case Study of Sarasota County, Florida

**Master of Science** in Geography, *Spring 2005*

The Pennsylvania State University: University Park, PA

Thesis: No Way Out: Assessing Evacuation Potential of Subdivisions along the South Carolina Coast

**Bachelor of Arts** in Geography, History Minor, *Spring 2002*

University of Tennessee: Knoxville, TN

### **Academic Positions**

*The Pennsylvania State University*

### **Research**

#### Project Manager

- Center for Integrated Regional Assessment, Department of Geography. This appointment focuses on hazards and climate change research specifically studying the potential impact

of sea level rise-enhanced hurricane storm surge inundation on Sarasota County, Florida and is funded through a grant with the National Oceanic and Atmospheric Administration (NOAA). *Summer 2007-Present.*

- Center for Integrated Regional Assessment, Department of Geography. This appointment was funded through a collaborative agreement with the United States Geological Survey (USGS) and required the completion a tsunami inundation zone analysis for the state of Hawai`i. *Spring 2006-Spring 2007.*

#### Co-Principal Investigator

- Multiple Applied Perspectives in Geography (MAPG), Department of Geography. This research is a graduate student led collaboration, which seeks to integrate graduate and undergraduate students in an exploration of redevelopment discourses in Biloxi, Mississippi post hurricane Katrina. This research was funded by a grant from the Department of Geography at The Pennsylvania State University. *Spring 2007-Present.*

#### Research Assistant

- GeoVISTA Center, Department of Geography, Geocollaborative Crisis Management (GCCM) research project. This study had as a goal to remedy current deficiencies in geospatial information technologies that fail to support group work and have typically been designed without scientific understanding of how groups (or groups of groups) work in crisis management to collect, process, and use geospatial information. *Fall 2004-Fall 2005.*
- GeoVISTA Center, Department of Geography, Dialogue-Assisted Visual Environment for Geoinformation (DAVE\_G) research project. This research developed principles for, implement, and assess natural, multi-modal, multi-user dialogue-enabled interfaces to geographic information systems (GIS) that make use of large-screen displays and virtual environment technology to assist in collaborative work environments. *Spring 2004-Fall 2004.*

#### **Teaching**

##### Instructor

- GEOG 030 **Geographic Perspectives on Sustainability and Human-Environment Systems.** Introduction to theory, methods, history and contemporary issues in global and regional relationships between human activity and the physical environment. *Summer 2007*
- GEOG 333 **Human Dimensions of Natural Hazards.** An introduction to social science principles and methodologies to address critical questions relating to managing the risks of natural hazards. *Spring 2007*

## Teaching Assistant

- GEOG 010 **Introduction to Physical Geography**. Survey and synthesis of processes creating geographical patterns of natural resources, with application of basic environmental processes in resource management. *Fall 2005*
- GEOG 020 **Human Geography**. Spatial perspective on human societies in a modernizing world; regional examples; use of space and environmental resources; elements of geographic planning. *Fall 2003*

## **Publications**

**Frazier, T.**, D. Bauer, A. Church, in progress, A Social Vulnerability Assessment Utilizing GIS and Factor Analysis: A Case Study of Maui County, Hawai`i.

**Frazier, T.**, N. Wood, in progress, Variations in Community Sensitivity to Storm Surge along the West Coast of Florida.

Derickson, K., **T. Frazier**, E. Knighton, M. Rios, in progress, Discourses of (re) Development: Imagining Alternatives for East Biloxi Post-Katrina.

MacEachren, A. M. & **T. Frazier**, in progress, GIS in Crisis Management: Review and Perspective.

**Frazier, T.** under review, When Speed Really Matters: Assessing Evacuation Potential of Subdivisions along the South Carolina Coast. *Journal of Planning Literature*.

**Frazier, T.**, N. Wood, B. Yarnal, forthcoming, Current and Future Vulnerability of Sarasota County, Florida, to Hurricane Storm Surge and Sea Level Rise. *Proceedings of the Solutions to Coastal Disasters Conference*, Turtle Bay, HI. 2008.

**Frazier, T.**, review of, Economics & Land Use Planning. *Regional Studies*, Vol. 42.2, pp. 295-303, March 2008.

Wood, N., A. Church, **T. Frazier**, B. Yarnal. 2007. Variations in Community Exposure and Sensitivity to Tsunami Hazards in the State of Hawai`i. United States Geological Survey technical report.

**Frazier, T.** 2006. The Floyd fiasco: Lessons learned in hurricane evacuation preparedness. *The Pennsylvania Geographer*, 43, 2.

Brewer, I., M. McNeese, **T. Frazier**, S. Fuhrmann, I. Terrell. 2005. Expanding team knowledge through procedural, temporal, and strategic elements. *Proceedings of the Human Factors and Ergonomics Society 49th Annual Meeting*, Orlando, FL.

## Grants and Awards

**National Science Foundation Doctoral Dissertation Research Improvement Grant** for, “Mitigating Inter- and Intra- Community Geospatially Dependent Vulnerability through the Enhancement of Network Resilience: A Case Study of Sarasota County, Florida,” *Fall 2007-Fall 2009*.

**National Oceanic and Atmospheric Administration Sectoral Applications Research Program (SARP)** for, “Increasing Community Resilience to Future Hurricane Storm Surge: Collaborative Decision Support in Sarasota, Florida,” *August 2007-August 2009*.

**The Pennsylvania State University Department of Geography Research Grant** for, “Discourses of (re) Development: Imagining Alternatives for East Biloxi Post-Katrina.” *Fall 2006-Fall 2007*

**United States Geological Survey Geographic Analysis and Monitoring (GAM) Program Grant** for, “Assessing Societal Vulnerability to Natural Hazards,” *Fall 2006-Summer 2007*.

**Ruby Miller Travel Grant**, Department of Geography, The Pennsylvania State University, for Graduate student fieldwork expenses, *Fall 2005*.

## Presentations

**Frazier, T.**, N. Wood, B. Yarnal, “Current & Future Vulnerability of Sarasota County, Florida, to Hurricane Storm Surge & Sea Level Rise,” Presentation at the American Society of Civil Engineers’ Solutions to Coastal Disasters Conference in Turtle Bay HI, April 13-16, 2008.

**Frazier, T.**, J. Conley, J. Hayes-Conroy, V. Sebestyen, “Surviving Graduate School” Panel Discussion at the No Boundaries Graduate Student Conference at The Pennsylvania State University, March 29, 2008.

**Frazier, T.**, N. Wood, “GIS-based Assessment of Community Exposure and Sensitivity to Tsunami Hazards along the Hawaiian Coast,” Presentation at the annual meeting of the Association of American Geographers in San Francisco, CA. April 17-21, 2007.

**Frazier, T.**, B. Yarnal, “Vulnerability Assessments of the Future-The Case of Hurricane Storm Surge,” Presentation at the annual meeting of the Association of American Geographers in San Francisco, CA. April 17-21, 2007.

Derickson, K., **T. Frazier**, E. Knighton, M. Rios, “Discourses of (re) Development: Imagining Alternatives for East Biloxi Post-Katrina.” Presentation at the annual meeting of the Association of American Geographers in San Francisco, CA. April 17-21, 2007.

**Frazier, T.** Guest Lecture: “Geography’s Role in Shaping Europe and Europe’s Role in Shaping Geography,” Geog 40, World Regional Geography, Department of Geography, The Pennsylvania State University, Fall 2006.

**Frazier, T.** Keynote Speaker: “From the Southeast Conference to the Big Ten: The Professionalization of a Geographer,” Gamma Theta Upsilon Induction Ceremony, The Pennsylvania State University, Spring 2006

**Frazier, T.** “No way out: Assessing evacuation potential of subdivisions along the South Carolina Coast,” Poster presentation at the annual meeting of the Association of American Geographers in Chicago, IL. March 6-11, 2006.

**Frazier, T.** “The Floyd Fiasco: Lessons Learned in Hurricane Evacuation Preparedness,” Presentation at the No Boundaries Graduate Student Conference at The Pennsylvania State University, February 25, 2006.

**Frazier, T.** “Hurricane Evacuation Preparedness: The Grand Strand,” Poster presentation at the Graduate Exhibition, The Pennsylvania State University, Spring 2006.

**Frazier, T.** Guest Lecture: “Safety Issues in Hurricane Evacuations,” IE 419 Safety Systems Engineering, Department of Industrial and Manufacturing Engineering, The Pennsylvania State University, Fall 2005.

**Frazier, T.** Guest Lecture: “The Field of Nature-Society Interaction,” Geog 20, Introduction to Human Geography, Department of Geography, The Pennsylvania State University, Summer 2005.

**Frazier, T.** “No way out: Assessing evacuation potential of subdivisions along the South Carolina Coast,” Presentation at the annual meeting of the Association of American Geographers in Denver, CO. April 5-9, 2005.

**Frazier, T.** “When speed really matters: Assessing evacuation potential of subdivisions along the South Carolina Coast,” Middle States Division of the Association of the American Geographers at Villanova University, November 2004.

## **Professional Service**

Reviewer for the International Journal of Geographic Information Science (IJGIS), 2007-2008.

Graduate Student Representative to the Department of Geography, The Pennsylvania State University, 2008.

Graduate Student Association Representative to the Faculty Senate, The Pennsylvania State University, 2007-2008.

Graduate Student Association Representative to the University Planning Committee, The Pennsylvania State University, 2007-2008.

Graduate Student Representative to the Graduate Student Association, The Pennsylvania State University, 2005-2008.

Graduate Student Representative for the Graduate Program Committee, the Department of Geography, The Pennsylvania State University, 2006-2007.

Graduate Student Association Representative to the Student Life Committee, The Pennsylvania State University, 2006-2007.

Graduate Student Representative to the John W. White Graduate Fellowship selection committee, The Pennsylvania State University, 2006-2007.

Department of Geography Representative to the Earth and Mineral Science Graduate Student Advisory Committee, The Pennsylvania State University, 2005-2007.

Graduate Student Representative to the Department of Geography, The Pennsylvania State University, 2005-2006.

Graduate Student Representative for the Coffee Hour Committee, the Department of Geography, The Pennsylvania State University, 2005-2006.

Judge for the Pennsylvania Junior Academy of Science State Meeting, 2005-2006

Graduate Student Representative for the Curriculum Committee, the Department of Geography, The Pennsylvania State University, 2004-2005.

## **Professional Associations**

Association of American Geographers

- Hazards Specialty Group
- Human Dimensions of Global Change Specialty Group
- Transportation Specialty Group
- Urban Geography Specialty Group

American Planning Association

## **Graduate Advisors**

MacEachren, A.M., The Pennsylvania State University

Rose, A., University of Southern California

Shakar, V., The Pennsylvania State University

Yarnal, B., (Committee Chair) The Pennsylvania State University