# BRYAN CHASTAIN

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School of Economic, Political and Policy Sciences
University of Texas at Dallas
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EDUCATION

University of Texas at Dallas, Richardson, TX
**Ph.D in Geospatial Information Science**                    **2006-2011**
Advisor: Dr. Fang Qiu
Dissertation: "A Hybrid CA/MAS Model of Residential Burglary with AHP and GA-based Calibration"

The Ohio State University, Columbus, OH
**M.A. Geography**                    **2003-2005**
Advisor:  Dr. Alan Murray
Thesis:  "A Comparative Analysis of Methods for Imposing Spatial Structure in Forest Harvest Scheduling"

Baylor University, Waco, TX
**B.S. Computer Science**                    **1999-2003**
Minor:  Electrical Engineering

TEACHING EXPERIENCE

University of Texas at Dallas
**Teaching Assistant – "Remote Sensing Digital Image Processing"**        **Spring 2011**
Collaborated on curriculum and exam development, met with students upon request, taught the lab portion, gave at least one lecture, and graded all written work.

**Teaching Assistant – "Applied Remote Sensing"**        **Fall 2010**
Collaborated on curriculum and exam development, met with students upon request, taught the lab portion, gave at least one lecture, and graded all written work.

**Teaching Assistant – "Spatial Analysis and Modeling"**        **Spring 2010**
Collaborated on curriculum and exam development, met with students upon request, taught the lab portion, gave at least one lecture, and graded all written work.

**Co-Instructor – "Computer Programming for GIS"**        **Fall 2009**

Responsible for all class lectures and lab assignments, collaborated on curriculum, met with students upon request, and graded all written work.

**Co-Instructor – "Computer Programming for GIS"**          **Fall 2008**
Responsible for half of class lectures and all lab assignments, collaborated on curriculum, met with students upon request, and graded all written work.

**Teaching Assistant – "Advanced Regression Analysis
with Spatial Applications"**                                          **Spring 2008**
Collaborated on curriculum and exam development, met with students upon request, and graded all written work.

**Teaching Assistant – "Population and Development"**          **Fall 2007**
Collaborated on curriculum and exam development, met with students upon request, and graded all written work.

**Teaching Assistant – "Advanced Regression Analysis"**          **Spring 2007**
Collaborated on curriculum and exam development, met with students upon request, and graded all written work.

 The Ohio State University
**Teaching Assistant – "Transportation Security"**          **Fall 2004 – Spring 2005**
Helped in the development of this new class offering, collaborated on curriculum and exam development, met with students upon request, and graded all written work.

PEER-REVIEWED PUBLICATIONS

Qiu, F., B. Chastain, H. Huang, P. Zhao, L. Di, 2011, GWASS: GRASS Web Application Software System based on the GeoBrain Web Service, *Computers and Geosciences*. Under Review.

Qiu, F., B. Chastain, and C. Zhang. 2011. Modeling land suitability/capability using fuzzy evaluation, *GeoJournal*. Accepted.

Qiu, F., B. Li, B. Chastain, and M. Alfarhan, 2008. A GIS based spatially explicit model of dispersal agent behavior, *Forest Ecology and Management,* Vol. 254, No. 3, 524-537.

Hayslett-McCall, K.L., F. Qiu, B. Chastain, J. Schubert, and V. Carver, 2008, The Simulation of the Journey to Residential Burglary, In Liu L. and J. Eck (ed.), *Artificial Crime Analysis System: Using Computer Simulation and Geographic Information Systems,* Hershey, PA: Idea Group.

## AWARDS

Student Paper Competition Award
**Geoinformatics 2008, Guangzhou, China** **July 2008**

## CONFERENCE PRESENTATIONS

"Simulating Sporting Events Attendance: Examining 2008-2009 NCAA Football Attendance with a Multi-Agent System"
Session Chair, "Using GIS, Remote Sensing, and Facility Data for Optimized Planning"
**Annual Meeting of the American Association of Geographers, Washington, DC** **Spring 2010**

"A GIS-based simulation model of seed dispersal with mammalian habitat corridors"
**Annual Meeting of the American Association of Geographers, Las Vegas, NV** **Spring 2009**

"Modeling residential burglary in a hybrid CA/MAS system with automatic AHP calibration"
**Geoinformatics 2008, Guangzhou, China** **July 2008**

"Spatial Structure in Harvest Scheduling"
**Annual Meeting of the American Association of Geographers, Denver, CO** **Spring 2005**

## PRESS

**Wong, K, 2008, Football and Facebook Meet GIS in GeoWeb 2008,** *Cadalyst***, 14 April 2008:**
**http://www.cadalyst.com/gis/football-and-facebook-meet-gis-geoweb-2008-9242**
Interviewed about research in predicting playoff sites for Texas high
school football

## RELATED EXPERIENCE

Geo-Marine, Inc.
**GIS Analyst** **2005 – 2006**
Provided support for Department of Defense Marine Resource
Assessments for Operational Areas around the world.