BRYAN CHASTAIN

Senior Lecturer
School of Economic, Political and Policy Sciences
University of Texas at Dallas
chastain@utdallas.edu

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

Instructor – "Introduction to Statistics for Social Science Majors"   **Spring 2013**

Instructor – "Tools for Spatial Analysis"   **Spring 2013**

Instructor – "Applied GIS"   **Spring 2013**

Instructor – "The Global Environment"   **Spring 2013**

Instructor – "Introduction to Statistics for Social Science Majors"   **Fall 2012**

Instructor – "Descriptive and Inferential Statistics"   **Fall 2012**

Instructor – "Tools for Spatial Analysis"   **Fall 2012**

Instructor – "Introduction to Geospatial Information Science"	**Fall 2012**
Instructor – "Introduction to Remote Sensing"	**Summer 2012**
Instructor & Developer – "Spatial Thinking & Applications"	**Spring 2012**
Instructor – "Introduction to Statistics for Social Science Majors"	**Spring 2012**
Instructor – "Introduction to Statistics for Social Science Majors" (2 sections)	**Fall 2011**
Teaching Assistant – "Remote Sensing Digital Image Processing"	**Spring 2011**
Teaching Assistant – "Applied Remote Sensing"	**Fall 2010**
Teaching Assistant – "Spatial Analysis and Modeling"	**Spring 2010**
Co-Instructor – "Computer Programming for GIS"	**Fall 2009**
Co-Instructor – "Computer Programming for GIS"	**Fall 2008**
Teaching Assistant – "Advanced Regression Analysis with Spatial Applications"	**Spring 2008**
Teaching Assistant – "Population and Development"	**Fall 2007**
Teaching Assistant – "Advanced Regression Analysis"	**Spring 2007**
The Ohio State University **Teaching Assistant – "Transportation Security"**	**Fall 2004 – Spring 2005**

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

"A Residential Burglary Simulation Model Calibrated using Hierarchical Genetic Algorithms"
Session Chair, "Crime and Crime Modeling"
Annual Meeting of the American Association of Geographers, New York, NY   **Spring 2012**

"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.