

Xiaomin Qiu
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Assistant Professor
Department of Geography, Geology, and Planning
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Research Interests

Geovisualization, geostatistics, GIScience and health, population estimation and land use classification, GIScience education, spatial cognition, and hazard vulnerability

Education

Ph.D., Geographic Education, 2006. Texas State University-San Marcos.

M.Ed., Theory of Curriculum & Instruction in Geography, 2001. East China Normal University, China

B.S., Geography, 1998. Ludong University (former Yantai Normal University), China

University Positions

Assistant Professor of Geospatial Science, August 2007 – present, Department of Geography, Geology, and Planning, Missouri State University

Visiting Assistant Professor of Geospatial Science, August 2006 – July 2007, Department of Geography, Geology, and Planning, Missouri State University

Graduate Assistant, August 2001 – July 2005, Department of Geography, Texas State University-San Marcos

Teaching

Introduction to Geographic Information Science, Fall 2008 ~ present, Department of Geography, Geology, and Planning, Missouri State University

Research Methods in Geospatial Science, Spring 2009~ 2012 Department of Geography, Geology, and Planning, Missouri State University

Thematic Mapping/Cartography, Fall 2006~ 2011, Department of Geography, Geology, and Planning, Missouri State University

Principles of Cartography, Fall 2006 ~ Spring 2008, Department of Geography, Geology, and Planning, Missouri State University

World Regional Geography, Fall 2006 ~ Spring 2007, Department of Geography, Geology, and Planning, Missouri State University

Fundamentals of GIS, Summer 2002~ Fall 2004, Department of Geography, Texas State University-San Marcos

Management and Implementation of GIS, Fall 2003 ~ Spring 2005, Department of Geography, Texas State University-San Marcos

Geographic Information Systems I, Spring 2003, Department of Geography, Texas State University-San Marcos

Submitted Manuscripts

- Qiu, X.**, and L. Rengstorf. Mapping Fitton Cave, Arkansas: A three-dimensional animation approach. *Cartography and Geographic Information Science*.
- Wu, S., **X. Qiu**, X. Miao. Incorporating Urban GIS Data and Expert Knowledge for Object-Based Classification of Detailed Urban Land Covers. *The Professional Geographer*.

Publications

- Xin, Miao, **X. Qiu**, S. Wu, J. Luo, and D. Gouzie. 2013. Developing robust procedures for automated sinkhole extraction from LiDAR DEMs. *Photogrammetric Engineering & Remote Sensing*. In press.
- Qiu, X.**, trans. 2011. *How to use group contingencies*. In *How to manage behavior series 2nd edition*. Taipei, Taiwan: Psychological Publishing Company.
- Qiu, X.**, trans. 2011. *How to use response cost*. In *How to manage behavior series 2nd edition*. Taipei, Taiwan: Psychological Publishing Company.
- Qiu, X.**, and S. Wu. 2011. School-profile and local socioeconomic variables of American College Test score for Missouri public high schools. *Annals of the Association of American Geographers* 101(1): 63-83.
- Qiu, X.**, S. Wu, and Y. Chen. 2010. Effects of study region size and drainage threshold on HAZUS-MH riverine flood analysis. *Cartography and Geographic Information Science* 37(2): 93-104.
- Qiu, X.** 2010. Three-Dimensional Data Models. In *Encyclopedia of Geography*, edited by Barney Warf. London: Sage Publications, Inc.
- Qiu, X.**, trans. 2009. *Your child's growing mind: Brain development and learning from birth to adolescence 3rd edition*. Taipei, Taiwan: Psychological Publishing Company.
- Wu, S., **X. Qiu**, E. L. Usery, and Le Wang. 2009. Using geometrical, textural, and contextual information of land parcels to classify detailed urban land use. *Annals of the Association of American Geographers* 99(1): 76-98.
- Wu, S., L. Wang, and **X. Qiu**. 2008. Incorporating GIS building data and census housing statistics for sub-block-level population estimation. *The Professional Geographer* 60(1): 121-135.
- Wu, S., **X. Qiu**, and L. Wang. 2006. Using semi-variance image texture statistics to model population densities. *Cartography and Geographic Information Science* 33(2): 127-140.
- Milson, A.J., R.L. Bunch, J. Caito, L.M. DeChano, and **X. Qiu**. 2005. GIS in K-12 education: Pedagogical tool or weapon of mass distraction. *Research in Geographic Education* 7: 62-73.
- Walker, S.L., R.L. Bunch, O. Muniz, C. Murr, **X. Qiu**, M. Rockey Moore, M. Warren, and P. Wridt. 2005. Cognition and learning in geographic education: A research agenda. *Research in Geographic Education* 7: 21-31.
- Wu, S., **X. Qiu**, and L. Wang. 2005. Population estimation methods in GIS and remote

sensing: a review. *GIScience & Remote Sensing* 42(1): 58-74.

Presentations

- Qiu, X. Detailed Urban Land-cover Classification from NAIP Imagery using Object-based Classification. Annual Meeting of the Association of American Geographers, New York, NY, Feb. 23-18, 2012
- Qiu, X. Geographic Information Systems (GIS) and Environment Management. Donghua University, Shanghai, China, June 22, 2011
- Qiu, X. Sinkhole Mapping using High-Resolution DEMs and Digital Orthophotos. Annual Meeting of the Association of American Geographers, Seattle, WA, April 12-16, 2011.
- Li, Lynnette, and X. Qiu. The Relationship between Lead and Academic Performance in Missouri: A Geographic Perspective. Annual Meeting of the Association of American Geographers, Seattle, WA, April 12-16, 2011.
- Qiu, X. Developing an Introductory Geographic Information Science Undergraduate Course for Everyone. Research in Geographic Education Conference, National Geographic Society, Washington, DC, April 12, 2010
- Qiu, X. Effect of Threshold Drainage Area and Study Region Size on HAZUS Flood Analysis. Annual Meeting of the Association of American Geographers, Washington, DC, April 12-16, 2010
- Qiu, X. School-Profile and Local Socioeconomic Variables of American College Test Score for Missouri Public High Schools. Annual Meeting of the Association of American Geographers, Las Vegas, NV, March 22-27, 2009
- Rengstorf, L. and X. Qiu. Web-based Interactive Cave Mapping: A Case Study for part of Fitton Cave, Arkansas. Annual Meeting of the Association of American Geographers, Las Vegas, NV, March 22-27, 2009
- Qiu, X. Geographic information technologies and Spatial Cognition. East China Normal University, Shanghai, China, July 3, 2008
- Qiu, X. Assessing university students' geospatial ability. International Geoinformatics 2008, Guangzhou, China, June 29-31, 2008
- Qiu, X. Growth patterns of small places in the State of Missouri, 1990 ~ 2000. Annual Meeting of the Association of American Geographers, Boston, MA, April 15-19, 2008
- Qiu, X. Effects of sampling interval on spatial analysis of watershed sediment. Annual Meeting of the Association of American Geographers, San Francisco, CA, April 17-22, 2007
- Qiu, X. Geographic information technologies: An influence on the spatial ability of university students. Annual Meeting of the Association of American Geographers, Chicago, IL, March 7-11, 2006
- Qiu, X. Population estimation in GIS and remote sensing: A review. Annual Meeting of the Southwestern Division of the Association of American Geographers, Fayetteville, AR, November 9-12, 2005
- Qiu, X. The role of GIS in improving university students' spatial ability: A pilot study. Annual Meeting of the Association of American Geographers, Denver, CO, April 5-9, 2005
- Qiu, X. A GIS-based location analysis for a new Chinese buffet restaurant in Austin, Texas.

Annual Applied Geography Conference, St. Louis, MO, October 20-24, 2004
Qiu, X. The role of GIS in improving university students' spatial ability: A proposal. Annual Meeting of the Association of American Geographers, March 14-19, 2004

Honors and Awards

2012 Faculty Excellence in Research, College of Natural and Applied Sciences, Missouri State University
2012 Institute on Systems Science and Health (ISSH 2012) Travel Award, National Institutes of Health (NIH)
2006 1st Place Student Paper Competition, Geographic Education Specialty Group. Annual Meeting of the Association of American Geographers
2005 Texas State University Graduate College Scholarship
2005 Texas State University Associated Student Government Scholarship
2005 The Frank and Ivy Boehm Geography Scholarship
2004 ESRI Graduate Award for Excellence in GIS
2004 Graduate Student Mini-Grant Award, National Council for Geographic Education
2004 Texas State University Associated Student Government Scholarship

Professional Affiliations

Member of the Association of American Geographers (AAG) and its specialty groups of Cartography, Geographic Information Systems, Spatial Analysis and Modeling, and Geographic Education