

Gang Gong

Associate Professor of Geography
Department of Geography and Geology
Sam Houston State University
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EDUCATION

Ph.D. in Geography, Boston University, 2006
M.A. in Geography, Boston University, 2003
B.Sc. in Geography, Peking University, 1995

AREAS OF SPECIALIZATION

Human geography, census geography, population analysis
Transportation geography, spatial interaction, and location analysis
Geographic Information Systems and spatial analysis
Quantitative methods in geography, spatial statistics
Remote sensing, digital image processing
Crime mapping analysis

POSITIONS

2011 – Present, Associate Professor of Geography, Sam Houston State University
2010 – 2015, Graduate Advisor, Applied GIS MS Program, Sam Houston State University
2005 – 2011, Assistant Professor of Geography, Sam Houston State University
1998 – 2005, Research and Teaching Fellow, Boston University

COURSES TAUGHT**Sam Houston State University:**

GEOG 1401 Weather and Climate
GEOG 1321 People, Place and Environment
GEOG 2355 World Regional Geography
GEOG 3633 Computer Cartography
GEOG 4468 Remote Sensing
GEOG 4075 GIS and Spatial Analysis
GEOG 4359 Transportation Geography
GEOG 5364 Spatial Analysis
GEOG 5365 Digital Image Processing
GEOG 5367 GIS Programming

GEOG 5368 GIS Program Use and Application
GEOG 5374 Advanced GIS Analysis
GEOG 6099 Thesis in GIS

Boston University:

GG201 World Regional Geography
GG275 Quantitative Environmental Modeling
GG502 Advanced Topics in Remote Sensing
GG505 Geographic Information Systems
GG550 Modeling Environmental and Social Systems

PEER-REVIEWED ARTICLES

- 2015 Strait, J. and **G. Gong**. The Impact of Increased Diversity on the Residential Landscape of a Sunbelt metropolis: Racial and Ethnic Segregation Across the Atlanta Metropolitan Region, 1990 – 2010. *Southeastern Geographer* 55(2): 119-142.
- 2015 Liu, C. and **G. Gong**. Assessing Vulnerability to Hurricanes in Harris County, Texas. In G.A. Tobin & B.E. Montz (eds.) *Evolving Approaches to Understanding Natural Hazards*. Cambridge Scholars Publishing: Newcastle-Upon-Tyne.
- 2014 Strait, J.B. and **G. Gong**. Residential dynamics in the wake of Katrina: Revisiting residential segregation among racial and ethnic groups in New Orleans, Louisiana 2000–2010. In Mehdi Khosrow-Pour (Ed.), *Inventive Approaches for Technology Integration and Information Resources Management*
- 2012 **Gong, G.** From Beats to Tracts: A Remote Sensing Approach to the Interpolation of Crime Data. In D.P. Albert (Ed.), *Geospatial Technologies and Advancing Geographic Decision Making: Issues and Trends*. IGI Global.
- 2012 Strait, J., and **G. Gong**. An evolving residential landscape in post-Katrina New Orleans: Residential segregation among racial and ethnic groups, 2000-2010. *International Journal of Applied Geospatial Research* 3(4): 1-19.
- 2012 Tiller, J., and **G. Gong**. July 1, 1835: What Did the Caddo Believe They Were Selling, and Was the Price Paid Fair? *Caddo Archeology Journal* 22: 115-42.
- 2011 Leipnik, M., X. Ye, and **G. Gong**. Geo-Spatial Technologies and policy issues in China: Status and Prospects. *Regional Science Policy and Practice* 3: 339-56.
- 2011 Liu, C., and **G. Gong**. Accessing Vulnerability to Hurricanes in Harris County, Texas. *Papers of the Applied Geography Conferences* 34: 175-83.
- 2010 Leipnik, M., and **G. Gong**. Spatial Diversification: The Concept and Its Application to General Growth Properties Investment Portfolio. *Business Studies Journal* 2: 49-62.

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- 2010 **Gong, G.**, and J. Strait, Census Tract and Spatial Analysis. *Papers of the Applied Geography Conferences* 33: 333-42.
- 2010 **Gong, G.**, and J. Hallonquist, Population Growth, Wildland-Urban Interface, and Wildfire in the Greater Austin, Texas. *Papers of the Applied Geography Conferences* 33: 298-307.
- 2010 Leipnik, M., and **G. Gong.**, Spatial Diversification. *Proceedings of the General Business Conference*: 431-442.
- 2010 Strait, J., and **G. Gong.**, Ethnic Diversity in Houston, Texas: The Evolution of Residential Segregation in the Bayou City, 1990-2000. *Population Review* 49 (1): 53-81.
- 2010 **Gong, G.**, From Beats to Tracts: A Remote Sensing Approach to the Interpolation of Crime Data. *International Journal of Applied Geospatial Research* 1 (2): 90-104.
- 2009 Leipnik, M., and **G. Gong.**, Business Applications of Geo-Spatial Technologies. *Business Studies Journal* 1: 7-29.
- 2009 Leipnik, M., and **G. Gong.**, Use of Geospatial Technologies in General Business. *Proceedings of the General Business Conference*: 379-97.
- 2009 **Gong, G.**, Visualization of Land Survey Records Using GIS. *Papers of the Applied Geography Conferences* 32: 372-81.
- 2009 **Gong, G.**, An analysis of air travel at Boston: 2001-2007. *The Northeastern Geographer* 1: 59-70.
- 2009 **Gong, G.**, and J. Tiller, Exploring Vegetation Patterns along an Undefined Boundary: Eastern Harrison County, Texas, Late Spring, 1838. *Social Science Computer Review* 27: 363-79.
- 2008 Strait, J., and **G. Gong.**, Poverty evolution in the capital of the Sunbelt: an investigation of neighborhood-level poverty among racial and ethnic groups within Houston, Texas; 1990-2000. *The Southwestern Geographer* 12: 40-70.
- 2008 Liu, C., D. Golding, and **G. Gong.**, Farmers' Coping Response to the Low-Flows in the Lower Yellow River: A Case Study of Temporal Dimensions of Vulnerability. *Global Environmental Change* 18: 543-53.
- 2008 **Gong, G.**, Spatial Interpolation of crime data using satellite imagery. *Papers of the Applied Geography Conferences* 31: 244-53.
- 2007 **Gong, G.**, and M. Leipnik, Use of Remotely Sensed Imagery in Cyber Warfare and Cyber Counter Terrorism. In L.J. Janczewski & A.M. Colarik (Eds.), *Encyclopedia of Cyber Warfare and Cyber Terrorism*. Hershey: Information Science Reference.

- 2007 Strait, J., **G. Gong.**, and C. Williams, The dynamics of residential segregation among racial and ethnic groups in New Orleans, Louisiana; 1990-2000. *The Southeastern Geographer* 47 (2): 254-282.
- 2005 Anderson, W.P., **G. Gong.**, and T.R. Lakshmanan, Competition in a deregulated market for air travel: the U.S. domestic experience and lessons for global markets. In A. Kanafani & K. Kuroda (Eds.), *Global Competition in Transportation Markets: Analysis and Policy Making*. Oxford: Elsevier.
- 2002 Anderson, W. P., **G. Gong.**, and Lakshmanan, T. R., Geographical variation in cost of air travel. *Transportation Research Record* 1788: 13-18.

PEER-REVIEWED CONFERENCE PRESENTATIONS

- 2010 Leipnik, M., and **G. Gong.** Spatial diversification: the concept and application to general growth properties investment portfolio. The Second Annual General Business Conference, Huntsville, Texas, April 9-10.
- 2009 **Gong, G.** From police beat to census tract: areal interpolation of crime data. The Tenth Crime Mapping Research Conference, New Orleans, Louisiana, August 19-22.
- 2009 Leipnik, M., and **G. Gong.** Business applications of Geo-Spatial technologies. The First Annual General Business Conference, Huntsville, Texas, April 17-18.
- 2003 **Gong, G.** Analysis of the U.S. domestic air travel cost using GIS and spatial analysis, University Consortium of Geographic Information Science (UCGIS) Summer Assembly, Pacific Grove, California, June 16-20.

CONFERENCE PRESENTATIONS

- 2016 Gong, G. The evolution of hub-spoke structure in the age of mergers. The 14th World Conference on Transport Research, Shanghai, China, July 10-15.
- 2015 **Gong, G.** Coping with errors in geocoding: a comparison between US and China cases. The 4th International Conference on Intelligent Information Processing, Chengdu, China, June 6-7.
- 2014 **Gong, G.** Impact on population estimation from boundary change between decennial census. The 2014 Annual Meeting of the Population Association of America, Boston, MA, May 1-3.
- 2012 Tiller, J., and **G. Gong.** The July 1, 1835 Caddo Land Cession. 54th Annual Caddo Conference, Natchitoches, Louisiana. March.

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- 2010 **Gong, G.**, and J. Strait, Census tract and spatial analysis. The 33rd Applied Geography Conference, Fort Worth, Texas, October 20-23.
- 2010 Hallonquist, J. and **G. Gong**. Population growth, wildland-urban interface, and wildfire in the greater Austin, Texas. The 33rd Applied Geography Conference, Fort Worth, Texas, October 20-23.
- 2009 **Gong, G.** Population interpolation over changed boundaries. The 105th Annual Meeting of the Association of American Geographers (AAG), Las Vegas, Nevada, March 22-27.
- 2008 **Gong, G.**, and T. Foster, Mapping vegetation using historical record. The 104th Annual Meeting of the Association of American Geographers (AAG), Boston, Massachusetts, April 15-19.
- 2007 **Gong, G.** Analysis of air travel behavior using logistic regression. The 103rd Annual Meeting of the Association of American Geographers (AAG), San Francisco, California, April 17-21.
- 2007 Zhang, Y., **G. Gong**., Tackett-Gibson, M, and Jim Dyer. Spatial patterns of substance use across Texas School Districts. The Academy of Criminal Justice Sciences Annual Meeting (ACJS). Seattle, Washington, DC, March 13-17.
- 2006 **Gong, G.** A spatial econometric model for long distance travel, Applied Geography Conference, Tampa, Florida, October 11-13.
- 2006 **Gong, G.** Hub analysis of the U.S. domestic air travel, The 102nd Annual Meeting of the Association of American Geographers (AAG), Chicago, Illinois, March 6-11.
- 2005 **Gong, G.** Analysis of airline deregulation effects using GIS and spatial analysis, The 101th Annual Meeting of the Association of American Geographers (AAG), Denver, Colorado, April 5-9.
- 2003 **Gong, G.**, Pockets of pain – airfare at dominated airports, The 99th Annual Meeting of the Association of American Geographers (AAG), New Orleans, Louisiana, March 5-8.