

Yanqing Xu

Assistant Professor

Department of Geography and Planning

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(Updated March 2018)

Education

2014 Ph.D. in Geography

Louisiana State University

Dissertation: *Built Environment and Risk of Obesity in the United States: A Multilevel Modeling Approach*

Advisor: Dr. Fahui Wang

2010 M.S. in Cartography and GIS

Wuhan University, China

Thesis: *The Research of Web Map Service Based on Google Maps API*

Advisor: Dr. Youchuan Wan

2008 B.A. in English (secondary degree)

Huazhong University of Science & Technology, China

2008 B. Eng. in GIS

China University of Geosciences, China

Professional Positions

08/2015 – Present Assistant Professor, Department of Geography & Planning,
University of Toledo

11/2014 – 07/2015 Technical Lead/Researcher (Faculty Research Assistant),
National Consortium for the Study of Terrorism and Response to Terrorism,
University of Maryland

01/2014 – 05/2014 Research Assistant, Department of Geography and
Anthropology, Louisiana State University

08/2010 – 12/2013 Teaching Assistant, Department of Geography and
Anthropology, Louisiana State University

Internships

06/2012 – 08/2012, Louisiana Geographic Information Center, Baton Rouge, LA

06/2009 – 02/2010, Bureau of Mapping and Surveying of Hubei Province, China

Research Interests

Geographic Information Systems, Spatial Analysis/Spatial Statistics, Quantitative Methods, Urban Planning, Public Health, Transportation, Crime, Terrorism and Society

Publications

Peer-review Publications:

Xu, Y., C. Fu, E. Kennedy, S. Jiang & S. Owusu-Agyemang (2018) The Impact of Street Lights on Spatial-Temporal Patterns of Crime in Detroit, Michigan. *Cities*. DOI: 10.1016/j.cities.2018.02.021

Liu, H., J. Wu & **Y. Xu** (2018) Investigating the Effects of Precipitation on Drought in the Hanjiang River Basin using SPI. *Journal of Water and Climate Change*. DOI: 10.2166/wcc.2018.102

Wang, L., J. Zhu, **Y. Xu** & Z. Wang (2018) Urban Built-Up Area Boundary Extraction and Spatial-Temporal Characteristics Based on Land Surface Temperature Retrieval, *Remote Sens*, 10(3), 473.

Wang, Y., H. Du, **Y. Xu**, D. Lu, X. Wang & Z. Guo (2018) Temporal and spatial variation relationship and influence factors on surface urban heat island and ozone pollution in the Yangtze River Delta, China. *Science of The Total Environment*, 631, 921-933.

Yang, Y., **Y. Xu**, D. Rodriguez, Y. Michael & H. Zhang (2018) Active travel, public transportation use, and daily transport among older adults: the influence of built environment. *Journal of Transport & Health*. DOI: 10.1016/j.jth.2018.01.012

Han, X., **Y. Xu**, A. Kumar & X. Lu (2018) Decoupling Analysis of Transportation Carbon Emissions and Economic Growth in China. *Environmental Progress & Sustainable Energy*. DOI: 10.1002/ep.12857

Yang, Y., Y. Jiang, **Y. Xu**, F. Mzayek & M. Levy (2017) A cross-sectional study of the influence of neighborhood environment on childhood overweight or obesity:

Variation by age, gender, and environment characteristics. *Preventive Medicine*, 108, 23-28.

Xu, Y., C. Fu, X. Shi, T. Onega & F. Wang (2017) Disparities in Geographic Accessibility of National Cancer Institute Cancer Centers in the United States. *Journal of Medical Systems*, 41(203).

Xu, Y., L. Wang, C. Fu & T. Kosmyna (2017) A fishnet-constrained land use mix index derived from remotely sensed data. *Annals of GIS*, 23(4), 303-313.

Xu, Y., Y. Liu, T. Chen, W. Shao & Z. Fu (2017) A Longitudinal Analysis of Environment and Risk of Obesity in the US. *Journal of Geoscience and Environment Protection*, 5, 204-220.

Du, H., W. Cai, **Y. Xu**, Z. Wang & Y. Wang (2017) Quantifying the cool island effects of urban green spaces using remote sensing data. *Urban Forestry & Urban Greening*, 27, 24-31.

Liu, Y., D. Li & **Y. Xu** (2017) Indiscriminate Friendliness in Children Adopted From China to the U.S.: A Mixed Methods Study. *The Professional Counselor*, 7(3), 208-222.

Fu, Z., Z. Tian, **Y. Xu** & K. Zhou (2017) Mining frequent route patterns based on personal trajectory abstraction. *IEEE Access*, 5(1), 11352-11363.

Fu, Z., Z. Tian, **Y. Xu** & C. Qiao (2016) A two-step clustering approach to extract locations from individual GPS trajectory data. *ISPRS Int. J. Geo-Inf*, 5(10), 166.

Xu, Y. & F. Wang (2015) Built environment and obesity by urbanicity in the U.S. *Health & Place*, 34, 19-29.

Xu, Y. & E. Kennedy (2015) An Introduction to Spatial Analysis in Social Science Research. *The Quantitative Methods for Psychology*, 11(1), 22-31.

Xu, Y. & L. Wang (2015) GIS-based analysis of obesity and the built environment in the US. *Cartography and Geography Information Science*, 42 (1), 9-21.

Xu, Y., M. Wen & F. Wang (2015) Multilevel Built Environment Features and Individual Odds of Overweight and Obesity in Utah. *Applied Geography*, 60, 197-203

Wang, F., M. Wen, **Y. Xu** (2013) Population-Adjusted Street Connectivity, Urbanicity and Risk of Obesity in the U.S. *Applied Geography*, 41, 1-14.

Wang, F., **Y. Xu** (2011) Estimating O-D travel time matrix by Google Maps API: implementation, advantages, and implications. *Annals of GIS*, 17, 199-209.

Xu, Y. & C. Fu (2009) The Study of LBS Spatial Database Knowledge Mining Method. *Journal of Postgraduates in Wuhan University, Natural Science Edition*, 25. (in Chinese)

Conference Proceedings:

Fu, C., Y. Wang, **Y. Xu** & Q. Li (2010) The logistics network system based on the Google Maps API. In *Logistics Systems and Intelligent Management*, 1486-1489. Harbin.

Presentations

“A Longitudinal Analysis of Neighborhood Built Environment and Risk of Obesity in the U.S.” Paper presented in an organized session entitled *Geospatial Health Research Symposium: Neighborhood Built Environment, Obesity, BMI, food access II* at the 113rd Annual Meeting of the Association of American Geographers, Boston, MA, April 2017

“An Introduction to Spatial Analysis in Social Science Research.” Invited talk at University of Toledo in the Department of Mathematics and Statistics, November 2016

“Disparities of Spatial Accessibility of NCI Cancer Center in the U.S.” Paper presented in an organized session entitled *Health-Social and Spatial Issues* at the Race, Ethnicity & Place Conference, Kent, OH, September 2016

“GIS-based analysis of obesity and the built environment in the U.S.” Invited talk at Wuhan University in the School of Remote Sensing and Information Engineering, Hubei University in the Faculty of Resources and Environmental Science, June 2016

“Built environment and risk of obesity in the United States.” Invited talk at East China Normal University in the School of Geographic Sciences, China University of Geosciences in the Faculty of Information Engineering and Department of Land Resources Administration, May 2016

“Deriving Land Use Mix from remotely sensed data for analyzing obesity in the U.S.” Paper presented in an organized session entitled *Obesity in the US and Canada* at the 112th Annual Meeting of the Association of American Geographers, San Francisco, CA, April 2016

“Built Environment and Obesity: A multilevel analysis.” Paper presented in an organized session entitled *Issues in Health Geography* at the 110th Annual Meeting of the Association of American Geographers, Tampa, FL, April 2014

“Spatial Heterogeneity between Built Environment and Obesity.” Paper presented in an organized session entitled *Geography, GIScience, and Anthropogenic Hazards* at the 109th Annual Meeting of the Association of American Geographers, Los Angeles, CA, April 2013

“Travel Time Estimation by Google Maps API.” Paper presented in an organized session entitled *Online visualization for geospatial sciences* at the 107th Annual Meeting of Association of American Geographers, Seattle, WA, April 2011

Funded Projects

2018: Yanqing Xu, *The Foy & Phyllis Penn Kohler Fund for International studies*, funded by the Kohler Grant from The University of Toledo, \$1300.

2017: Yanqing Xu, “GIS-based Analysis of Streetlights and Neighborhood Crime in Detroit, Michigan,” funded by the University Research Funding Opportunities (URFO) Programs from The University of Toledo, \$17,000.

2017: Eddie Chou and Yanqing Xu, “Transportation Asset Management,” funded by the Ohio Department of Transportation, \$400,000.

2016: Yanqing Xu, *The Foy & Phyllis Penn Kohler Fund for International studies*, funded by the Kohler Grant from The University of Toledo, \$790.

2011: Yanqing Xu, *South Central Arc User Group (SCAUG) Research Grants*. “An online and desktop real-time network travel time analysis system for urban studies,” funded by Latitude Geographics, \$1,500.

Awards

2014 Research Assistantship sponsored by the Department of Geography & Anthropology, Louisiana State University

2013 Pruitt Scholarship sponsored by the Department of Geography & Anthropology, Louisiana State University

2010-2013 Teaching Assistantship sponsored by the Department of Geography & Anthropology, Louisiana State University

2008-2010 Graduate Student Assistantship, Wuhan University, China

2005-2008 Undergraduate Student Scholarship, China University of Geosciences, China

Teaching

GEPL 4110/5110, Geographic Information Systems

GEPL 4420/5420, Quantitative Methods in Geography

GEPL 4180/5180, Geographic Information Systems Applications

GEPL 6950, Applied Geographic Workshop

Guest Lecturer, GEPL 6100, Philosophy and Methodology; GEPL 2010, Fundamentals of Geography

Professional Service

Committee:

Dissertation Committee Chair

Student Name: Jayani Bothalage Done

Dissertation Committee Member

Student Name: Khaled Aboganah; Owusua Yamoah; Sangida Mazumder

Master's Thesis Committee Chair

Student Name: Tim Kosmyna; Samuel Owusu-Agyemang; Kristie Reece

Master's Thesis Committee Member

Student Name:

Department of Geography and Planning:

Adam Jurski; Samaraweera Achchillage Jayawardhana; Travis Johns; Ben Coyle; Abolade Oladimeji; Panini Amin Chowdhury

Department of Civil and Environmental Engineering:

Mounika Sajja (graduated in 2017); Naga Abhiram Bandreddy

Professional Affiliations:

Association of American Geographers (AAG)

International Association of Chinese Professionals in Geographic Information Sciences (CPGIS)

Grant Reviewer:

Jacques May Thesis Prize

Journal Reviewer:

Transaction in GIS

AIMS Public Health

International Journal of Environmental Research and Public Health

Applied Geography

International Journal of Disaster Risk Science

Social Work in Health Care

Habitat International

Annals of GIS

Journal of Urban Management

Sustainability

Computers, Environment and Urban Systems

Journal of Urban Health

Journal on Image and Video Processing

Landscape and Urban Planning