

Yanqing Xu

Assistant Professor

Department of Geography and Planning

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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 (Wuhan), China

Professional Positions

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

10/2014 – 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. & S. Owusu-Agyemang (2019) Gun-related Crime in Detroit, Michigan: Exploring the Spatial Context of Licensed Firearm Availability and Neighborhood Characteristics. *Papers in Applied Geography*. DOI: 10.1080/23754931.2019.1619192

Du, H., Y. Cai, F. Zhou, H. Jiang, W. Jiang & **Y. Xu** (2019) Urban blue-green space planning based on thermal environment simulation: A case study of Shanghai, China. *Ecological Indicators*, 106.

Xu, Y., M. Sajja & A. Kumar (2019) Impact of the Hydraulic Fracturing on Indoor Radon Concentrations in Ohio: A Multilevel Modeling Approach. *Front. Public Health* 7(76). DOI: 10.3389/fpubh.2019.00076

Liu, Y., T. Tan, D. Li & **Y. Xu** (2019) Development and Evaluation of the Disinhibited Social Engagement Scale (DSES): a Tool for Assessment and Guide for Counseling Practice. *International Journal for the Advancement of Counselling*, 1-17.

Larson, M., **Y. Xu**, L. Ouellet & C. Klahm (2019) Exploring the impact of 9398 demolitions on neighborhood-level crime in Detroit, Michigan. *Journal of Criminal Justice*, 60, 57-63.

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*, 79, 45-52.

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*, 9, 288-298.

Han, X., **Y. Xu**, A. Kumar & X. Lu (2018) Decoupling Analysis of Transportation Carbon Emissions and Economic Growth in China. *Environmental Progress & Sustainable Energy*, 37(5).

Yang, Y., Y. Jiang, **Y. Xu**, F. Mzayek & M. Levy (2018) 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 & Y. Cai (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 Geographic 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:

Sajja, M., **Y. Xu** & A. Kumar (2017) Predictors of Indoor Radon Concentrations and Hydraulic Fracturing in Ohio. In *A&WMA's 110th Annual Conference & Exhibition*, Pittsburgh, PA.

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, Heilongjiang, China.

Presentations

“Exploring the Impact of 9,398 Demolitions on Neighborhood-level Crime in Detroit, Michigan” Paper presented in an organized session entitled *Urban Crime Mapping and Analysis Using GIS IV* at the 115th Annual Meeting of the Association of American Geographers, Washington, DC, April 2019

“Applications of GIS in Public Health and Crime Analysis” Invited talk at the Department of Geography & Planning Colloquium Series at the University of Toledo, February 2019

“Housing Price Analysis Using a Multilevel Modeling Approach: The Case of Lucas County, Ohio” Paper presented in an organized session entitled *Business and Economic Geography 3* at the 2018 Applied Geography Conference, Kent, OH, November 2018

“Crime Data Analysis Under a Space-time Statistical Analysis Framework” Paper presented in an organized session entitled *Spatio-temporal Data and Sharing* at the 26th International Conference on Geoinformatics, Kunming, Yunnan, China, June 2018

“How GIS is used in Public Health and Crime Analysis” Invited talk at the 5th Wuhan University International Forum, Wuhan, Hubei, China, May 2018

“GIS, Public Health and Public Safety” Invited talk at Sichuan University International Young Scholar Forum, Chengdu, Sichuan, China, May 2018

“The Impact of Street Lights on Spatial-Temporal Patterns of Crime in Detroit, Michigan” Paper presented in an organized session entitled *Big Data and Urban Crime II* at the 114th Annual Meeting of the Association of American Geographers, New Orleans, LA, April 2018

“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 in the Department of Mathematics and Statistics at University of Toledo, 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

2019: Yanqing Xu, *Summer, 2019 Service Learning Course Design Institute (CDI)*, funded by the University Teaching Center from The University of Toledo, \$1,000.

2018: Yanqing Xu, *The Foy & Phyllis Penn Kohler Fund for International studies*, funded by the Kohler Grant from The University of Toledo, \$1,300.

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 (Wuhan), 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

Institutional Service

2018 – Present, MA Geography Program Committee, Department of Geography & Planning, University of Toledo

2019 – Present, BS Geospatial Science Program Proposal Committee, Department of Geography & Planning, University of Toledo

Mentorship

PhD students - as committee chair (advisor)

1. Jayani Bothalage Done (current)

PhD students - as committee member

Department of Geography and Planning (Spatially Integrated Social Science program):

1. Owusua Yamoah (current);
2. Sangida Mazumder (current);
3. Khaled Aboganah (current)

Department of Civil and Environmental Engineering:

1. Bernard Bahaya (current)

Department of Mechanical, Industrial & Manufacturing Engineering:

1. Zonghua Xu (current);
2. Lakshika Nishadhi Kurupparachchi (current)

Master graduate students - as committee chair (advisor)

1. Samuel Owusu-Agyemang (graduated in 2018);

Thesis: Examining the spatial correlation between violent crime and private police-monitored surveillance camera systems; an application of the localized colocation quotient

2. Kristie Reece (graduated in 2018);

Thesis: Fighting Urban Blight through Community Engagement and GIS

3. Tim Kosmyna (current);
4. Isaac Sapani (current)

Master graduate students - as committee member

Department of Geography and Planning:

1. Samaraweera Achchillage Jayawardhana (graduated in 2018);
2. Panini Amin Chowdhury (graduated in 2018);
3. Abolade Oladimeji (graduated in 2018);
4. Adam Jurski (current);
5. Travis Johns (current);
6. Ben Coyle (current);
7. Tanzia Tasneem Ahmed (current);
8. S M Ahsanullah (current)
9. Tylar Kist (current)

Department of Civil and Environmental Engineering:

1. Mounika Sajja (graduated in 2017);
2. Tariq Rahimi (graduated in 2018);
3. Naga Abhiram Bandreddy (graduated in 2019)
4. Maruti Chowdary Bathula (current)

Department of Economics:

1. Meaghan Roberts (graduated in 2019)

Department of Geology:

1. Amy Renee Towell (graduated in 2019)

Visiting Scholars

1. Hongyu Du (East China Normal University, 2016-2017)
2. Yuanyuan Wang (East China Normal University, 2016-2017)
3. Cailin Li (Shandong University of Technology, 2019-2020)
4. Baoyun Guo (Shandong University of Technology, 2019-2020)
5. Zhiye Xia (Chengdu University of Information Technology, 2019-2020)

Professional Affiliations:

Association of American Geographers (AAG)

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

Race, Ethnicity and Place (REP)

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
Cartography and Geographic Information Science
Cities
Sustainable Cities and Society