

Xingong Li

Department of Geography
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Education

Ph.D. Geography, University of South Carolina, 2000
M.S. Geography, Nanjing University (China), 1992
B.S. Geology, Nanjing University (China), 1989

Academic Appointments

Assistant Professor Department of Geography, University of Kansas, 2003-present.
Assistant Professor Dept. of Geography & Planning, Appalachian State University,
2000-2002.
Research Scientist State Key Laboratory of Resources and Environment Information
System, Chinese Academy of Sciences, 1992-1996.

Refereed Publications

1. A.T. Peterson, A.G. Navarro-Siguenza, and X. Li. (in press) Joint effects of marine intrusion and climate change on the Mexican avifauna, submitted to *Annals of the Association of American Geographers*.
2. Menon, S., J. Soberon, X. Li, and A.T. Peterson. (in press) First-pass global assessment of biodiversity consequences of sea level rise mediated by climate change, Submitted to *Journal of Biodiversity and Conservation*.
3. A.T. Peterson, S. Menon, and X. Li. (in press) Recent Advances in the Climate Change Biology Literature: Learning from Rip Van Winkle, Submitted to *Wiley Interdisciplinary Reviews: Climate Change*.
4. Wu, S., S. Zhou, X. Li, W.C. Johnson, H. Zhang, and J. Shi. (in press) Heavy-metal accumulation trends in Yixing, China: an area of rapid economic development, *Journal of Environmental Geology*.
5. Wu, S., S. Zhou, X. Li, T. Jackson, Q. Zhu. (in press) An approach to partition the anthropogenic and natural components of heavy metal accumulations in roadside agricultural soil, *Environmental Monitoring and Assessment*.

6. Setiadi, M.I., A. Hamidy, Z. Abidin, D. Susanto, R. Brown, A.T. Peterson, **X. Li**, and B.J. Evans. (2010) Geographic genetic structure of herpetofauna on Halmahera Island, Indonesia: implications for the Aketajawe-Lolobata National Park, *Journal of Conservation Biology*. 24(2): 553-562.
7. French, K. and **X. Li** (2010) Feature-based cartographic modeling, *International Journal of Geographical Information Science*. 24(1): 141-164.
8. Tucker, D.F., and **X. Li**. (2009) Characteristics of warm season precipitating storms in the Arkansas-Red River basin, *Journal of Geophysical Research—Atmospheres*, 114, D13108, doi:10.1029/2008JD011093.
9. **Li, X.**, R.J. Rowley, J.C. Kostelnick, D. Braaten, J. Meisel, and K. Hulbutta (2009) GIS analysis of global impacts from sea level rise. *Photogrammetric Engineering & Remote Sensing*, 75(7): 807-818.
10. Wu, S., S. Zhou, **X. Li**, H. Zhang, K. Ren, and Q. Zhao (2009) Estimating the anthropogenic fluxes of heavy metal accumulations in roadside agricultural soils. *Fresenius Environmental Bulletin*, 18(7b): 1336-1340.
11. **Li, X.** and M. Williams (2008) Snowmelt runoff modeling in an arid mountain watershed, Tarim Basin, China. *Hydrological Processes*, 22: 3931-3940.
12. Legra, L., **X. Li**, and T. A. Peterson (2008) Biodiversity consequences of sea level rise in New Guinea. *Pacific Conservation Biology*, 14(3): 191-199.
13. Rowley, R.J., J.C. Kostelnick, D. Braaten, **X. Li**, and J. Meisel (2007) Risk of rising sea level to population and land area. *Eos, Transactions, American Geophysical Union*, 88(9): 105-107.
14. **Li, X.** (2005) Deriving directional variance from covariance matrix. *Transactions in GIS*, 9(3): 443-445.
15. **Li, X.**, C. Larson, and A. Rex (2005) Creating buffers on surfaces. *Cartography and Geographical Information Science*, 32(3): 195-210.
16. **Li, X.**, S. Wang, and M. Harman (2005) Improved lake/reservoir water quality modeling using an environmental model and GIS. *GIScience & Remote Sensing*, 42(4): 320-332.

17. Li, X. and M. Hodgson (2004) Vector field data model and operations. *GIScience & Remote Sensing*, 41(1): 1-24.
18. Hodgson, M., X. Li, and Y. Chen (2004) A parameterization model for transportation feature extraction. *Photogrammetric Engineering & Remote Sensing*, 70(12): 1399-1404.
19. Lin, H., Q. Wan, X. Li, J. Chen, and Y. Kong (1997) GIS-based multi-criteria evaluation support system for investment, *Environment Management and Planning B*, 24(2): 403-414.
20. Li, X. and T. Chi (1995) The design and implementation of a feature-oriented GIS. *Remote Sensing Technology and Applications*. 10(4): 65-70. (in Chinese)
21. Li, X., F. Qiu, and S. Zhan (1995) Application of GPS and GIS in vehicle real-time monitoring. *Remote Sensing Technology and Applications*, 10(2): 33-37. (in Chinese)
22. Wu, B., M. Zhang, and X. Li (1994) Development of GIS. *Acta Geographical Sinica*. 49(8): 632-640. (in Chinese)

Other Publications

- Li, X. (in press) Map algebra, in *Encyclopedia of Geography* (Ed. B. Warf), SAGE Publications, 2 pages.
- Li, X. and T. Xu (2008) Using NEXRAD Precipitation in AnnAGNPS, *Software and Technical Report to USDA*, 28 pages.
- Harman, M., X. Li, and S. Wang (2004) GIS extension for BATHTUB—software and user manual. *Kansas Biological Survey Publication No. 122*, 35 pages.
- Li, X. (1998) Distributed storm runoff modeling using GIS. *Proceedings of GIS/LIS'98 Annual Conference*, Fort Worth, Texas, pp: 68-75
- Li, X. (1997) Development of neural network spatial interpolator for precipitation estimation. *Proceedings of GIS/LIS'97 Annual Conference*, Cincinnati, Ohio. pp: 653-662.

Manuscripts under Review

Scholarly Presentations

- Bentlage, B., A.T. Peterson, X. Li, A.G. Collins, and P. Cartwright, Biogeography of open ocean jellyfishes: integrating ecological niche modeling and phylogeography in a 3D environment, *the 10th International Congress of Ecology (INTECOL)*, Brisbane, Australia, August, 2009.
- Li, X., (invited) Snow-/glacier-melt water in southern Xinjiang, China, *Conference of the opening of western China: problems and prospects*, University of Kansas, Lawrence, April, 2009.
- Li, X. and D. Tucker, Precipitation events—their spatio-temporal characteristics and movement, *AAG Annual Conference*, Las Vegas, March, 2009.
- Tucker, D. and X. Li, Climatology of warm season precipitating storms in the southern Great Plains, *AMS Annual Meeting*, Phoenix, January, 2009.
- Tucker, D. and X. Li, Distribution of Warm Season Precipitating Storms in the Southern Great Plains, *AGU Fall Meeting*, San Francisco, December, 2008.
- Li, X., Snowmelt runoff modeling in the Yarkant river basin, *International Workshop of Glaciers in Watershed and Global Hydrology*, Obergurgl, Austria, September, 2007.
- Li, X., GIS Tools for Visualizing and Analyzing the NEXRAD Precipitation Data, *AAG Annual Conference*, Boston, April, 2007.
- Li, X., R.J. Rowley, J.C. Kostelnick, D. Braaten, J. Meisel, and K Hulbutta, GIS Analysis of Global Inundation Impacts from Sea Level Rise, *AAG Annual Conference*, San Francisco, March, 2006.
- Li, X., Creating buffers on topographic surfaces, *AAG Annual Conference*, Denver, March, 2005.
- Li, X., Wind Farm Siting Using GIS in Western North Carolina, *ASPRS Annual Meeting*, Denver, May, 2004.

- Li, X., Viewshed Characterization for Wind Farm Siting in Western North Carolina, *Twenty-fourth annual ESRI international user conference*, San Diego, August, 2004.
- Li, X., Integrating Analytic Hierarchy Process with GIS through the COM technology, *ASPRS Annual Meeting*, Washington D.C., April, 2002.
- Li, X., Data model and operations for vector fields, *The First International Conference on Geographic Information Science*, Savannah, October, 2000.
- Hodgson, M. and X. Li, Shortest path considering the direction of movement, *ASPRS Annual Meeting*, Portland, May, 1999.
- Hodgson, M. and X. Li, Sensitivity analysis on feature extraction algorithm, *ASPRS Annual Meeting*, Tampa, April, 1998.
- Carbone, G., R. Lloyd, R. Bunch, and Li, X., Comparison of different interpolation techniques with monthly precipitation data, *AAG Annual Conference*, Boston, March, 1998.
- Li, X., Digital road map for vehicle navigation, *International Symposium of Geoinformatics'95 Hong Kong: RS, GIS and GPS in sustainable development and environmental monitoring*, Hong Kong, May, 1995.

Research Grants

- Sea level rise effects on coastal ecosystem distributions and biodiversity status in the U.S. Middle Atlantic region, **PI**, DoE, \$125,000, 04/01/09 – 8/31/10.
- Geographic and cartographic assistance to the Geneva International Centre for Humanitarian Demining, **co-PI**, Geneva International Centre for Humanitarian Demining, \$80,000, 3/15/09-12/31/09.
- IGERT: C-CHANGE: Climate Change, Humans, and Nature in the Global Environment. **Participating Faculty**, NSF, \$3,200,000, 2008-2013.
- Snowmelt runoff modeling in the Sierra-Nevada watersheds, **PI**, University of Kansas Faculty General Research Fund, \$7409, 07/01/2008—06/30/2009.
- Developing NEXRAD-based precipitation datasets for the Cheney Lake watershed for use in water quality models, **PI**, USDA, \$19,685, 05/01/2007 – 01/31/2008.

NSF Science and Technology Center: Center for Remote Sensing of Ice Sheets, **Participating Faculty**, NSF, \$19,000,000, 08/01/2005--07/31/2010.

Conservation Evaluation and Assessment Project for the Cheney Reservoir Watershed, **PI**, USDA, \$18,000, 09/01/2005 – 05/31/2006.

Understanding snow and glacier runoff processes in an arid mountain watershed, **PI**, University of Kansas Faculty General Research Fund, \$4,438, 07/01/2005—06/30/2006.

Developing a GIS Extension for Lake Water Quality Model BATHTUB, **PI**, EPA, \$15,000, 06/01/2004—12/31/2004.

Multi-resolution representation and analysis of vector GIS data, **PI**, University of Kansas New Faculty General Research Fund, \$7,964, 07/01/2003 – 06/30/2004.

Honors and Awards

University of Kansas Big 12 Faculty Fellowship, 2009

University of Kansas Big 12 Faculty Fellowship, 2007

University of Kansas Team Award, 2003-2004

Teaching Experience

2003-present Department of Geography, University of Kansas

Principles of Geographic Information Systems (GIS): introductory GIS

Intermediate GIS: upper division/graduate GIS

GIS Application Programming: upper division/graduate GIS

Geographic Information Science: upper division/graduate GIS

Seminar in GIS: graduate seminar in GIS

2000-2002 Department of Geography & Planning, Appalachian State University

Physical Geography: introductory physical geography

Introduction to GIS: introductory GIS

Advanced GIS: upper division/graduate GIS

GIS Application Programming: upper division/graduate GIS

Remote Sensing Digital Image Processing: upper division/graduate remote sensing

Graduate Committees

Committees Chaired

Keith French (M.S. geography)
Tom Overly (M.S. geography)
Justin Penka (M.S. geography)
Tingting Xu (M.S. geography, defended thesis in September 2009)
Matt Harman (M.S. geography, graduated in May 2005)

Committee Member

Iwake Masialleti (Ph.D. geography)
Joshua S. Campbell (Ph.D. geography)
Willy Rittase (Ph.D. geology)
Corinne Emanuelle (Ph.D. geology)
Bastian Bentlage (Ph.D. EEB)
Sarah Bodbyl (Ph.D. EEB)
David McLeod (Ph.D. EEB)
Jeet Sukumaran (Ph.D. EEB)
Arpi S. Nyari (Ph.D. EEB)
Justin Busboom (M.S. geography)
Amber Reynolds (M.S. geography),
Andrew Gottsfield (M.S. anthropology)
Rohith Kumar Gali (M.S. Biological and Agricultural Engineering, KSU)
Matt Dunbar (Ph.D. geography, graduated in August 2009)
Yoshi Nakazawa (Ph.D. geography, graduated in August 2009)
Monica Papes (Ph.D. EEB, graduated in May 2009)
Simeon Rabbani (M.S. geography, graduated in May 2007)
Matt Dunbar (M.S. geography, graduated in May 2006)
Joshua Campbell (M.S. geography, graduated in May 2006)
Monica Papes (M.S. EEB, graduated in May 2006)
Rex Rowley (M.S. geography, graduated in May 2005)
Patrick Taylor (M.S. geography, graduated in May 2005)

Service

Department and University Service

Department Curriculum Committee, 2008-present
Department Internship Coordinator, 2006-present
University Graduate Council, 2006-present

Department Faculty Search Committee, 2007-2008
University Campus GIS Server Committee, 2007-2008
Department Faculty Affairs Committee, 2006-2008
Department GIS Day Event Committee, 2003-2009
University Standing Committee on Scholarship and Fellowship, 2006-2007
Department Undergraduate Studies Committee, 2005-2006
Department KU Edwards GIS degree-completion program Committee, 2004-2005
University Chinese Student Association Faculty Advisor, 2004-2005
Department Graduate Studies Committee, 2003-2005,
Department Instructional Technology Funds Committee, 2003-2005
Department Geography-Urban Planning Joint MA Degree Committee, 2003

National Service

Session Chair of AAG annual conference, 2008
Member of the Advisory Council of the Department of Geography, Northwest Missouri State University, 2006-2007.
GIS course evaluation for the Geosciences and Urban Planning departments at the University of Missouri, Kansas City, 2008
Session Chair of ASPRS annual meeting, 2004
KU delegate to the University Consortium for Geographic Information Science (UCGIS), 2003-2005

Journal and Grant Reviewer

International Journal of Geographic Information Science, Geomatica, Hydrological Processes, Water Resources Management, The Professional Geographer, Wetlands, and National Science Foundation

Professional Affiliations

Association of American Geographers (AAG)
American Society for Photogrammetric Engineering and Remote Sensing (ASPRS)