CURRICULUM VITAE [Updated on Aug 2, 2024]
Fahui Wang

The Pinkie Gordon Lane Graduate School
123 W David Boyd Hall
Louisiana State University
Baton Rouge, LA 70803
E-mail: fwang@lsu.edu
https://faculty.lsu.edu/fahui

I.   EDUCATION

12/1995   Ph.D.   City and Regional Planning, The Ohio State University
(Dissertation: Spatial Equilibrium Models of Systems of Cities with Interurban Transportation Costs; Advisor: Jean-Michel Guldmann)
09/1993   M.A.   Economics, The Ohio State University
07/1988   B.S.   Geography, Peking University, Beijing, China
(Senior thesis: Rank-Size Models of Cities in China 1949-1987; in Chinese; Advisor: Zhaoliang Hu)

II.   EMPLOYMENT HISTORY

Administrative Positions

- 01/2022— : 08/2024   Associate Dean, the Pinkie Gordon Lane Graduate School, Louisiana State University
- 01/2014—05/2020:   Chair, Department of Geography and Anthropology, Louisiana State University
- 08/2007—07/2013:   Director, Chinese Culture and Commerce Program, Louisiana State University

Academic Appointments

- 08/2007— : Professor, Department of Geography and Anthropology, Louisiana State University
  Professorships
  o 08/2020—present: Cyril & Tutta Vetter Alumni Professor
  o 08/2014—07/2020:   James J. Parsons Professor
  o 08/2009—07/2012:   Fred B. Kniffen Professor
- 08/2002—07/2007: Associate Professor, Department of Geography, Northern Illinois University
- 08/1996—07/2002: Assistant Professor, Department of Geography, Northern Illinois University
  Major Service Role
  o 01/1998-09/1999: Director, Graduate Studies, Department of Geography, Northern Illinois University

- 07/1988—08/1991: Academic Advisor for Undergraduates, Department of Geography, Peking University, China

<u>Non-academic Employment</u>
- 12/1995—04/1996: Senior Planner, North Delta Planning and Development District, Mississippi

III. PUBLICATIONS

1. BOOKS (6)

Wang, F. and L. Liu. 2024. *Computational Methods and GIS Applications in Social Science* (3rd ed.). Boca Raton, FL: CRC Press. ISBN 9781032285184 (406 Pages)

Liu, L. and F. Wang. 2024. *Computational Methods and GIS Applications in Social Science— Lab Manuel*. Boca Raton, FL: CRC Press (284 Pages)

Wang, F. and C. Wang. 2022. *GIS-Automated Delineation of Hospital Service Areas*. Boca Raton, FL: CRC Press. ISBN 9780367202286 (208 Pages)

Hu, Y. and F. Wang. 2019. *GIS-based Simulation and Analysis of Intraurban Commuting*. Boca Raton, FL: CRC Press. ISBN 978-0-367-02303-4 (110 Pages)

Wang, F. 2015. *Quantitative Methods and Socioeconomic Applications in GIS* (2nd ed.) Boca Raton, FL: CRC Press. ISBN 978-1-4665-8472-3 (301 Pages)

> 2019, in Chinese, Beijing: Commercial Press. [王法辉（著），刘凌波（译），2019，《GIS 和数量方法在社会经济研究中的应用》，商务印书馆，北京, 323 页，ISBN 978-7-100-17349-0]

Wang, F. 2006. *Quantitative Methods and Applications in GIS*. Boca Raton, FL: CRC Press. ISBN 0-8493-2795-4 (263 Pages)

> 2009, in Chinese, Beijing: Commercial Press. [王法辉（著），姜世国、滕骏华（译），2009，《基于 GIS 的数量方法与应用》，商务印书馆，北京，313页，ISBN 978-7-100-06092-9]

2. EDITED VOLUMES (2)

Shi, X. and F. Wang (editors). 2016. *Applications of Geospatial Information Technologies in Public Health*. Beijing: Higher Education Press, ISBN 978-7-04-044052-2 (in Chinese, 277 Pages) [施讯、王法辉（编），2016，《地理信息技术在公共卫生与健康领域的应用》，高等教育出版社，北京，277 页; the book is currently undergoing revision for its 2nd edition by the Higher Education Press, and expected to be on the market in June 2024]

Wang, F. (editor). 2005. *Geographic Information Systems and Crime Analysis*. Hershey, PA: Idea Group Publishing. ISBN 159140454-1 (345 Pages)

3. JOURNAL ARTICLES AND BOOK CHAPTERS (total = 165)

3a. Refereed Journal Articles in English (total = 127)
[**F Wang** in **bold** indicates **corresponding author**]

Wang, C., T. Onega, and **F. Wang**. 2024. Overlapping cancer service areas: Delineation and implications. *Transaction in GIS* 28: 604–622. https://doi.org/10.1111/tgis.13140

Liu, L., X. Fu, T. Kötter, K. Sturm, C. Haubold, W. W. Guan, S. Bao, and **F. Wang**. 2024. Geospatial Analytics Extension for KNIME. *SoftwareX* 25: 101627. https://doi.org/10.1016/j.softx.2023.101627

Liu, L., **F. Wang**, X. Fu, T. Kötter, K. Sturm, W. W. Guan, S. Bao. 2024. Elevating the RRE framework for geospatial analysis with visual programming platforms: an exploration with Geospatial Analytics Extension for KNIME. *International Journal of Applied Earth Observation and Geoinformation* 130, 103948. https://doi.org/10.1016/j.jag.2024.103948.

Scodari, B. T., A. P. Schaefer, N. S. Kapadia, A. J. O'Malley, A. N. A. Tosteson, G. A. Brooks, T. Onega, C. Wang, F. Wang, E. L. Moen. 2024. Characterizing the traveling oncology workforce and its influence on patient travel burden: a claims-based approach. *JCO Oncology Practice*. https://doi.org/10.1200/OP.23.00690

Alford-Teaster, J., F. Wang, E. L. Moen, L. Cowan, R. E. Smith, A.N.A. Tosteson, and T. Onega. 2024. Broadband data forensics: spatiotemporal variations of the download/upload speed metric commonly used to evaluate potential telehealth accessibility. *Telemedicine and E-Health* 30(3):874-880. DOI: 10.1089/tmj.2023.0320.

Liu, L., J. Alford-Teaster, T. Onega, and **F. Wang**. 2023. Refining 2SVCA method for measuring telehealth accessibility of primary care physicians in Baton Rouge, Louisiana. *Cities* 138: 104364. https://doi.org/10.1016/j.cities.2023.104364

Wang, F., Y. Zeng, L. Liu, and T. Onega. 2023. Disparities in spatial accessibility of primary care in Louisiana: From physical to virtual accessibility. *Frontiers in Public Health* 11:1154574. https://doi.org/10.3389/fpubh.2023.1154574.

Onega, T, J Alford-Teaster, C Leggett, A Loehrer, J E Weiss, E L Moen, C C Pollack, F Wang. 2023. The interaction of rurality and rare cancers for travel time to cancer care. *Journal of Rural Health* 39:426–433. https://doi.org/10.1111/jrh.12693

Han, Y., Y. Hu, H. Zhu, and **F. Wang**. 2023. A cyclically adjusted spatio-temporal kernel density estimation method for predictive crime hotspot analysis. *Annals of GIS* 29: 177-191, DOI: 10.1080/19475683.2023.2166584

Antunes, F. S., **F. Wang**, and M. C. Fernandes. 2023. multiple centrality assessment of location preferences of retail and services in Petrópolis, Brazil. *Papers in Applied Geography* 9: 136-148. https://doi.org/10.1080/23754931.2022.2128859

Wang, C., T. Onega, and **F. Wang**. 2022. Multiscale Analysis of Cancer Service Areas in the United States. *Spatial and Spatio-temporal Epidemiology* 43: 100545. https://doi.org/10.1016/j.sste.2022.100545

Li, G., Z. Lv, F. Wang, G. Chen, W. Sun, Y. Shi, and S. Liu. 2022. The uneven reaction to combat the COVID-19 pandemic: Geovisualizing of fever clinics in mainland China. *Environment and Planning B* 49: 2548-2552. DOI: 10.1177/23998083221128303

Zipkin, R J, A Schaefer, C Wang, A P Loehrer, N S Kapadia, G A Brooks, T Onega, F Wang, A J O'Malley, E L Moen. 2022. Rural-Urban Differences in Breast Cancer Surgical Delays in Medicare Beneficiaries. *Annals of Surgical Oncology* 29: 5759–5769. https://doi.org/10.1245/s10434-022-11834-4

Wang C., F. Wang, and T. Onega. 2022. Delineation of Cancer Service Areas anchored by major cancer centers in the USA. *Cancer Research Communications* 2: 380–389. https://doi.org/10.1158/2767-9764.CRC-22-0099

Wang, C. and **F. Wang**. 2022. GIS-automated delineation of hospital service areas in Florida: From Dartmouth method to network community detection methods. *Annals of GIS* 28: 93-109. https://doi.org/10.1080/19475683.2022.2026470

Li, M., F. Wang, M-P Kwan, J. Chen, and J. Wang. 2022. Equalizing the spatial accessibility of emergency medical services in Shanghai: A trade-off perspective. *Computers, Environment and Urban Systems* 92: 101745. https://doi.org/10.1016/j.compenvurbsys.2021.101745.

Alford-Teaster, J., F. Wang, A. N. A. Tosteson, T. Onega. 2021. Incorporating broadband durability in measuring geographic access to healthcare in the era of telehealth: a case example of the Two-Step Virtual Catchment Area (2SVCA). *Journal of the American Medical Informatics Association* 28: 2526-2530. DOI: 10.1093/jamia/ocab149.

Zhu, H. and **F. Wang**. 2021. An agent-based model for simulating urban crime with improved daily routines. *Computers, Environment and Urban Systems* 89: 101680. https://doi.org/10.1016/j.compenvurbsys.2021.101680

Wang C., **F. Wang**, and T. Onega. 2021. Spatial behavior of cancer care utilization in distance decay in the Northeast region of the U.S. *Travel Behaviour and Society* 24: 291-302. https://doi.org/10.1016/j.tbs.2021.05.003. PMC8189327.

Xu, J., F. Wang, L. Chen and W. Zhang. 2021. Perceived urban green and residents' health in Beijing. *SSM - Population Health* 14: 100790. https://doi.org/10.1016/j.ssmph.2021.100790

Wang C., **F. Wang**, and T. Onega. 2021. Network optimization approach to delineating health care service areas: Spatially constrained Louvain and Leiden algorithms. *Transactions in GIS* 25: 1065-1081. DOI: 10.1111/tgis.12722. PMC8386167

Wang, F. 2021. From 2SFCA to i2SFCA: integration, derivation and validation. *International Journal of Geographical Information Science* 35: 628-638. DOI: 10.1080/13658816.2020.1811868. PMC7959250.

Kang, C., L. Shi, F. Wang, Y. Liu. 2020. How urban places are visited by social groups? Evidence from matrix factorization on mobile phone data. *Transactions in GIS* 24: 1504-1525. DOI: 10.1111/tgis.12654

Kuai, X. and **F. Wang**. 2020. Global and localized neighborhood effects on public transit ridership in Baton Rouge, Louisiana. *Applied Geography* 124: 102338. DOI: 10.1016/j.apgeog.2020.102338

Jia, P., F. Wang, and I. Xierali. 2020. Evaluating the effectiveness of the Hospital Referral Region (HRR) boundaries: a pilot study in Florida. *Annals of GIS* 26: 251–260. DOI: 10.1080/19475683.2020.1798509

Hu, Y., C. Wang, R. Li, **F. Wang**. 2020. Estimating a large drive time matrix between zip codes in the United States: A differential sampling approach. *Journal of Transport Geography* 86: 102770. DOI: 10.1016/j.jtrangeo.2020.102770. PMC7363032.

Wang, F., C. Wang, Y. Hu, J. Weiss, J. Alford-Teaster, T. Onega. 2020. Automated delineation of cancer service areas in northeast region of the United States: a network optimization approach. *Spatial and Spatio-temporal Epidemiology* 33: 100338. doi:10.1016/j.sste.2020.100338. PMC7229644.

Wang, F. 2020. Why public health needs GIS? A methodological review. *Annals of GIS* 26: 1-12. DOI: 10.1080/19475683.2019.1702099. PMC7297184.

Hu, W., J. Tan, M. Li, F. Wang, and J. Wang. 2020. Impact of traffic on the spatiotemporal variations of spatial accessibility of emergency medical services in inner-city Shanghai. *Environment and Planning B: Urban Analytics and City Science* 47: 841-854. DOI: 10.1177/2399808318809711

Kim, H. and **F. Wang**. 2019. Disparity in spatial access to public daycare and kindergarten across GIS-constructed regions in Seoul, South Korea. *Sustainability* 11(19), 5503. doi.org/10.3390/su11195503

Jia, P., **F. Wang**, and I. Xierali. 2019. Differential effects of distance decay on hospital inpatient visits among subpopulations in Florida. *Environmental Monitoring and Assessment* 191(S2): 381. DOI: 10.1007/s10661-019-7468-2. PMC6598965.

Wang, F., C. Liu, C., and Y. Xu. 2019. Analyzing population density patterns in China with GIS-automated regionalization: the Hu Line revisited. *Chinese Geographical Science* 29: 541–552. DOI: 10.1007/s11769-019-1054-y.

Liu, C., Y. Xu, and **F. Wang**. 2019. Population distribution patterns and changes in China 1953-2010: a regionalization approach. *Journal of Geographical Sciences* 29: 1908-1922. DOI: 10.1007/s11442-019-1696-9.

Liu, C., **F. Wang**, and Y. Xu. 2019. Habitation environment suitability and population density patterns in China: A regionalization approach. *Growth and Change: A Journal of Urban and Regional Policy* 50:184–200. DOI: 10.1111/grow.12283.

Wang, Y., **F. Wang**, Y. Zhang and Y. Liu. 2019. Delineating urbanization "source-sink" regions in China: Evidence from mobile app data. *Cities* 86: 167-177. DOI: 10.1016/j.cities.2018.09.016

Wang, F., C. Liu, and Y. Xu. 2019. Mitigating the zonal effect in modeling urban population density functions by Monte Carlo simulation. *Environment and Planning B: Urban Analytics and City Science* 46: 1061–1078. DOI: 10.1177/2399808317749832.

Li, M., M-P Kwan, **F. Wang**, and J. Wang. 2018. Using points-of-interest data to estimate commuting patterns in central Shanghai. *Journal of Transport Geography* 72: 201-210. DOI: 10.1016/j.jtrangeo.2018.09.004

Hu, Y. **F. Wang**, C Guin, and H. Zhu. 2018. A spatio-temporal kernel density estimation framework for predictive crime hotspot mapping and evaluation. *Applied Geography* 99: 89-97. doi:10.1016/j.apgeog.2018.08.001

Sathiaraj, D., T Punkasem, F. Wang, and D.P.K. Seedah. 2018. Data-driven analysis on the effects of extreme weather elements on traffic volume in Atlanta, GA, USA. *Computers, Environment and Urban Systems* 72:212-220. DOI: 10.1016/j.compenvurbsys.2018.06.012

Hu, Y., **F. Wang**, and I. Xierali. 2018. Automated delineation of Hospital Service Areas and Hospital Referral Regions by modularity optimization. *Health Services Research* 53: 236-255. DOI: 10.1111/1475-6773.12616. PMID27861822 (PMC5785331)

Wang, F. 2018. Inverted Two-Step Floating Catchment Area method for measuring facility crowdedness. *Professional Geographer* 70: 251-260. DOI: 10.1080/00330124.2017.1365308

Wang, F., Y. Hu, S. Wang, and X. Li. 2017. Local Indicator of Colocation Quotient with a statistical significance test: examining spatial association of crime and facilities. *Professional Geographer* 69: 22-31. DOI: 10.1080/00330124.2016.1157498

Jia, P., **F. Wang**, and I. Xierali. 2017. Using a Huff-based model to delineate Hospital Service Areas. *Professional Geographer* 69: 522-530. DOI:10.1080/00330124.2016.1266950

Hu, Y., **F. Wang**, and C. G. Wilmot. 2017. Commuting variability by wage groups in Baton Rouge 1990-2010. *Papers in Applied Geography* 3: 14-29. DOI: 10.1080/23754931.2016.1248577

Luo, J., L. Tian, L. Luo, H. Yi and **F. Wang**. 2017. Two-Step Optimization for Spatial Accessibility Improvement: A case study of health care planning in rural China. *BioMed Research International* 2017: 2094654, doi:10.1155/2017/2094654. PMC5412212

Onega, T, J Alford-Teaster and F Wang. Population-based geographic access to National Cancer Institute (NCI) Cancer Center parent and satellite facilities. *Cancer* 123: 3305-3311. DOI: 10.1002/cncr.30727. PMID28464212.

Jia, P., **F. Wang**, and I. Xierali. 2017. Delineating hierarchical Hospital Service Areas in Florida. *Geographical Review* 107: 608-623. DOI: 10.1111/j.1931-0846.2016.12207.x

Xu, Y., C. Fu, T. Onega, X. Shi, **F. Wang**. 2017. Disparities in geographic accessibility of National Cancer Institute Cancer Centers in the United States. *Journal of Medical Systems* 41:203. DOI: 10.1007/s10916-017-0850-0. PMID29128881. PMC8208496.

Li, X., F. Wang, and H. Yi. 2017. A two-step approach to planning new facilities towards equal accessibility. *Environment and Planning B: Urban Analytics and City Science* 44: 994-1011. DOI: 10.1177/0265813516657083

Hu, Y. and **F. Wang**. 2016. Temporal trends of intraurban commuting in Baton Rouge 1990-2010. *Annals of the American Association of Geographers* 106: 470-479. DOI: 10.1080/00045608.2015.1113117

Mu, L., **F. Wang**, V. W. Chen and X. Wu. 2015. A place-oriented, mixed-level regionalization method for constructing geographic areas in health data dissemination and analysis. *Annals of the Association of American Geographers* 105: 48-66. PMC4523277.

Xu, Y., M. Wen and **F. Wang**. 2015. Multilevel built environment features and individual odds of overweight and obesity in Utah. *Applied Geography* 60: 197-203. Doi: 10.1016/j.apgeog.2014.10.006. PMC4523305.

Jia, P., I. Xierali and **F. Wang**. 2015. Evaluating and re-demarcating the Hospital Service Areas in Florida. *Applied Geography* 60: 248-253. Doi: 10.1016/j.apgeog.2014.10.008

Wang, F. and T. Onega. 2015. Accessibility of cancer care: disparities, outcomes and mitigation. *Annals of GIS* 21: 119-125. DOI: 10.1080/19475683.2015.1007893

Hu, Y. and **F. Wang**. 2015. Decomposing excess commuting: a Monte Carlo simulation approach. *Journal of Transport Geography* 44: 43-52. doi:10.1016/j.jtrangeo.2015.03.002

Xu, Y. and **F. Wang**. 2015. Built environment and obesity by urbanicity in the U.S. *Health & Place* 34: 19-29. doi:10.1016/j.healthplace.2015.03.010. PMC4497827.

Leitner, M., N. N. S. Lam, F. Wang, L. Wang, S. Meng and J. Kent. 2015. Geographic information science and technology at Louisiana State University. *Cartography and Geographic Information Science* 42: sup1, 84-90, DOI: 10.1080/15230406.2015.1059255

Ikram, S. Z., Y. Hu and **F. Wang**. 2015. Disparities in spatial accessibility of pharmacies in Baton Rouge, Louisiana. *Geographical Review* 105: 492-510

Wang, F. and L. K. Robert. 2015. Constructing geographic areas by REDCAP and MLR for analysis of homicide rates: a case study of New Orleans, Louisiana. *Papers in Applied Geography* 1: 295-306. https://doi.org/10.1080/23754931.2015.1084355

Wang, F., C. Chen, C. Xiu and P. Zhang. 2014. Location analysis of retail stores in Changchun, China: A street centrality perspective. *Cities* 41: 54-63. Doi: 10.1016/j.cities.2014.05.005

Williams, S. and **F. Wang**. 2014. Disparities in accessibility of public high schools, in metropolitan Baton Rouge, Louisiana 1990-2010. *Urban Geography* 35: 1066-1083. Doi:10.1080/02723638.2014.936668

Wang, J., H. Mo and **F. Wang**. 2014. Evolution of air transport network of China 1930-2012. *Journal of Transport Geography* 40: 145-158. Doi: 10.1016/j.jtrangeo.2014.02.002

Wang, F., Q. Tang and L. Wang. 2014. Post-Katrina population loss and uneven recovery in New Orleans 2000-2010. *Geographical Review* 104: 310–327. doi/10.1111/j.1931-0846.2014.12028.x

Joseph, M., **F. Wang** and L. Wang. 2014. GIS-based assessment of urban environmental quality in Port-au-Prince, Haiti. *Habitat International* 41: 33-40. Doi: 10.1016/j.habitatint.2013.06.009

Liu, Y., F. Wang, C. Kang, Y. Gao, and Y. Lu. 2014. Analyzing relatedness by toponym co-occurrences on web pages. *Transactions in GIS* 18: 89-107. Doi: 10.1111/tgis.12023

Wang, F., L. Zhang, G. Zhang and H. Zhang. 2014. Mapping and spatial analysis of multiethnic toponyms in Yunnan, China. *Cartography and Geographic Information Science* 41: 86-99. Doi: 10.1080/15230406.2013.831529

Wang, F., M. Wen, and Y. Xu. 2013. Population-adjusted street connectivity, urbanicity and risk of obesity in the U.S. *Applied Geography* 41: 1-14. Doi: 10.1016/j.apgeog.2013.03.006. PMC3647703.

Wang, F. and Q. Tang. 2013. Planning toward equal accessibility to services: a quadratic programming approach. *Environment and Planning B-Planning & Design* 40: 195-212. Doi:10.1068/b37096

Xiao, Y., **F. Wang**, Y. Liu and J. Wang. 2013. Reconstructing gravitational attractions of major cities in China from air passenger flow data, 2001-2008: a Particle Swarm Optimization approach. *Professional Geographer* 65: 265-282. Doi:10.1080/00330124.2012.679445.

Wang, F. and W. Wang. 2013. Modeling population settlement patterns using a density function approach: New Orleans before and after Hurricane Katrina. *Cityscape: A Journal of Policy Development and Research* 15: 329-339

Wang, F., D. Guo and S. McLafferty. 2012. Constructing geographic areas for cancer data analysis: a case study on late-stage breast cancer risk in Illinois. *Applied Geography* 35: 1-11. Doi:10.1016/j.apgeog.2012.04.005. PMID22736875 (PMC3379893)

Wang, F. 2012. Why police and policing need GIS: an overview. *Annals of GIS* 18: 159-171. doi.10.1080/19475683.2012.691900

Liu, Y., F. Wang, Y. Xiao, and S. Gao. 2012. Urban land uses and traffic 'source-sink areas': Evidence from GPS-enabled taxi data in Shanghai. 2012. *Landscape and Urban Planning* 106: 73-87. doi:10.1016/j.landurbplan.2012.02.012

Joseph, M., L. Wang and **F. Wang**. 2012. Using Landsat imagery and census data for urban population density modeling in Port-au-Prince, Haiti. *GIScience & Remote Sensing* 49: 228–250. https://doi.org/10.2747/1548-1603.49.2.228

Wang, F., G. Wang, J.F. Hartmann and W. Luo. 2012. Sinification of Zhuang place names in Guangxi, China: A GIS-based spatial analysis approach. *Transactions of the Institute of British Geographers* 37: 317-333. doi: 10.1111/j.1475-5661.2011.00471.x

Porta, S., V. Latora, **F. Wang** et al. 2012. Street centrality and location of economic activities in Barcelona. *Urban Studies* 49: 1471–1488. doi: 10.1177/0042098011422570.

Wang, F. 2012. Measurement, optimization and impact of health care accessibility: a methodological review. *Annals of the Association of American Geographers* 102: 1104-1112. DOI:10.1080/00045608.2012.657146. PMC3547595

Wang, F. and Y. Xu. 2011. Estimating O-D travel time matrix by Google Maps API: implementation, advantages and implications. *Annals of GIS* 17: 199-209. https://doi.org/10.1080/19475683.2011.625977

McLafferty, S., F. Wang, L. Luo and J. Butler. 2011. Rural-urban inequalities in late-stage breast cancer: spatial and social dimensions of risk and access. *Environment and Planning B-Planning & Design* 38: 726-740. doi:10.1068/b36145. PMC3547633

Dai, D. and F. Wang. 2011. Geographic disparities in accessibility to food stores in southwest Mississippi, *Environment and Planning B-Planning & Design* 38: 659-677. doi 10.1068/b36149.

Wang, J., H. Mo, F. Wang, and F. Jin. 2011. Exploring the network structure and nodal centrality of China's air transport network: A complex network approach. *Journal of Transport Geography* 19: 712-721. doi:10.1016/j.jtrangeo.2010.08.012

Antipova, A., **F. Wang** and C. Wilmot. 2011. Urban land uses, socio-demographic attributes and commuting: a multilevel modeling approach. *Applied Geography* 31: 1010-1018. Doi: 10.1016/j.apgeog.2011.02.001.

Wang, F., A. Antipova and S. Porta. 2011. Street centrality and land use intensity in Baton Rouge, Louisiana. *Journal of Transport Geography* 19: 285-293. doi:10.1016/j.jtrangeo.2010.01.004

Luo, L., S. McLafferty and F. Wang. 2010. Analyzing spatial aggregation error in statistical models of late-stage cancer risk: a Monte Carlo simulation approach, *International Journal of Health Geographics* 9:51. https://doi.org/10.1186/1476-072X-9-51. PMID20959015 (PMC2970586)

Antipova, A. and **F. Wang**. 2010. Land use impacts on trip chaining propensity for workers and non-workers in Baton Rouge, Louisiana. *Annals of GIS* 16: 141-154. https://doi.org/10.1080/19475683.2010.513150

Elkin, E. B., N. M. Ishill, J. G. Snow, K. S. Panageas, P. B. Bach, L. Liberman, F. Wang, D. Schrag. 2010. Geographic access and the use of screening mammography. *Medical Care* 48: 349-356. doi: 10.1097/MLR.0b013e3181ca3ecb. PMID20195174 (PMC3647348)

Wang, F., L. Luo and S. McLafferty. 2010. Healthcare access, socioeconomic factors and late-stage cancer diagnosis: an exploratory spatial analysis and public policy implication.

International Journal of Public Policy 5: 237-258. doi:10.1504/IJPP.2010.030606. PMC3540777

Luo, W., J. F. Hartmann and F. Wang. 2010. Terrain characteristics and Tai toponyms: A GIS analysis of Muang, Chiang and Viang. *GeoJournal* 75: 93–104. doi: 10.1007/s10708-009-9291-8.

Joseph, M. and **F. Wang**. 2010. Population density patterns in Port-au-Prince, Haiti: A model of Latin American city? *Cities* 27: 127-136. doi:10.1016/j.cities.2009.12.002.

Driskell, L. and **F. Wang**. 2009. Mapping digital divide in neighborhoods: Wi-Fi access in Baton Rouge, Louisiana. *Annals of GIS* 15: 35-46. https://doi.org/10.1080/19475680903271042

Wang, J., F. Jin, H. Mo, and F. Wang. 2009. Spatiotemporal evolution of China's railway network in the 20th century: an accessibility approach. *Transportation Research Part A: Policy and Practice* 43: 765-778. https://doi.org/10.1016/j.tra.2009.07.003

Feng, J., **F. Wang** and Y.-X. Zhou. 2009. The spatial restructuring of population in metropolitan Beijing: Toward polycentricity in the post-reform era. *Urban Geography* 30: 779-802. https://doi.org/10.2747/0272-3638.30.7.779

McLafferty, S. and F. Wang. 2009. Rural reversal? Rural-urban disparities in late-stage cancer risk in Illinois. *Cancer* 115: 2755-2764. https://doi.org/10.1002/cncr.24306. PMID19434667 (PMC2774239)

Porta, S., V. Latora, F. Wang et al. 2009. Street centrality and densities of retails and services in Bologna, Italy. *Environment and Planning B-Planning & Design* 36: 450-465. https://doi.org/10.1177/0042098011422570

Chen Y. and F. Wang. 2008. Fourier analysis of an expanded gravity model for spatio-temporal interactions. *Far East Journal of Dynamical Systems* 10: 325-347.

Wang, F. and M. Arnold. 2008. Localized income inequality, concentrated disadvantage and homicide. *Applied Geography* 28: 259-270. https://doi.org/10.1016/j.apgeog.2008.07.004

Teng, J., **F. Wang** and Y. Liu. 2008. An efficient algorithm for raster-to-vector data conversion. *Geographic Information Sciences* 14: 54-62. https://doi.org/10.1080/10824000809480639

Mu, L. and **F. Wang**. 2008. A scale-space clustering method: mitigating the effect of scale in the analysis of zone-based data. *Annals of the Association of American Geographers* 98: 85-101. https://doi.org/10.1080/00045600701734224

Wang, F., S. McLafferty, V. Escamilla and L. Luo. 2008. Late-stage breast cancer diagnosis and health care access in Illinois. *Professional Geographer* 60: 54-69. https://doi.org/10.1080/00330120701724087. PMID 18458760 (PMC2367325)

Wang, F. 2007. Job access in disadvantaged neighborhoods in Cleveland, 1980-2000: implications for spatial mismatch and association with crime patterns. *Cityscape: A Journal of Policy Development and Research* 9: 95-121. https://www.jstor.org/stable/20868633

Wang, F., J. Hartmann, W. Luo and P. Huang. 2006. GIS-based spatial analysis of Tai place names in southern China: an exploratory study of methodology. *Geographic Information Sciences* 12: 1-9. https://doi.org/10.1080/10824000609480611

Wang, F., F. Jin and C. Gu. 2005. GIS-based method for delineating urban hinterlands in Northeast China. *Geographic Information Sciences* 11: 113-121. https://doi.org/10.1080/10824000509480606

Gu, C., **F. Wang** and G. Liu. 2005. The structure of social space in Beijing in 1998: a socialist city in transition. *Urban Geography* 26: 167-192. https://doi.org/10.2747/0272-3638.26.2.167

Wang, F. 2005. Job access and homicide patterns in Chicago: an analysis at multiple geographic levels based on scale-space theory. *Journal of Quantitative Criminology* 21: 195-217. https://link.springer.com/article/10.1007/s10940-005-2492-5

Wang, F. and W. Luo. 2005. Assessing spatial and nonspatial factors for healthcare access: Towards an integrated approach to defining health professional shortage areas. *Health & Place* 11: 131-146. DOI: 10.1016/j.healthplace.2004.02.003. PMID15629681

Jin, F., **F. Wang** and Y. Liu. 2004. Geographic patterns of air passenger transport in China 1980-98: Imprints of economic growth, regional inequality and network development. *Professional Geographer* 56: 471-487. https://onlinelibrary.wiley.com/doi/abs/10.1111/j.0033-0124.2004.00442.x

Wang, F. 2004. Spatial clusters of cancers in Illinois 1986-2000. *Journal of Medical Systems* 28: 237-256. https://link.springer.com/article/10.1023/B:JOMS.0000032842.78643.38. PMID15446615

Luo, W., F. Wang and C. Douglass. 2004. Temporal changes of access to primary health care in Illinois (1990-2000) and policy implications. *Journal of Medical Systems* 28: 287-299. DOI: 10.1023/b:joms.0000032845.90730.84. PMID15446618

Luo, W. and **F. Wang**. 2003. Measures of spatial accessibility to health care in a GIS environment: synthesis and a case study in Chicago region. *Environment and Planning B-Planning & Design* 30: 865-884. doi:10.1068/b29120. PMC8238135.

Wang, F. 2003. Job proximity and accessibility for workers of various wage groups. *Urban Geography* 24: 253-271. https://doi.org/10.2747/0272-3638.24.3.253

Wang, F. and W. W. Minor. 2002. Where the jobs are: employment access and crime patterns in Cleveland. *Annals of the Association of American Geographers* 92: 435-450. https://doi.org/10.1111/1467-8306.00298

Wang, F. 2002. The geography of the wages: Chinese cities 1989 and 1997. *Asia Pacific Viewpoint* 43: 257-272. https://doi.org/10.1111/1467-8373.00175

Wang, F. 2002. Distance decay of population densities from major cities in China. *Current Politics and Economics of China* 3: 545-555.

Wang, F. 2001. Regional density functions and growth patterns in major plains of China, 1982-90. *Papers in Regional Science* 80: 231-240. https://doi.org/10.1007/PL00013624

Wang, F. 2001. Explaining intraurban variations of commuting by job proximity and workers' characteristics. *Environment and Planning B-Planning & Design* 28: 169-182. https://doi.org/10.1068/b2710

Wang, F. 2001. Wage differentials among Chinese cities. *TRIALOG* 68: 4-8.

Wang, F. 2000. Modeling commuting patterns in Chicago in a GIS environment: a job accessibility perspective. *Professional Geographer* 52: 120-133. https://doi.org/10.1111/0033-0124.00210

Wang, F. and Y. Meng. 1999. Analyzing urban population change patterns in Shenyang, China 1982-90: density function and spatial association approaches. *Geographic Information Sciences* 5: 121-130. https://doi.org/10.1080/10824009909480521

Wang, F. 1999. Modeling a central place system with interurban transport costs and complex rural hinterlands. *Regional Science and Urban Economics* 29: 381-409. https://doi.org/10.1016/S0166-0462(98)00026-X

Wang, F. and Y. Zhou. 1999. Modeling urban population densities in Beijing 1982-90: suburbanisation and its causes. *Urban Studies* 36: 271-287. https://doi.org/10.1080/0042098993600

Guldmann, J.-M. and F. Wang. 1999. Optimizing the natural gas supply mix of local distribution utilities. *European Journal of Operational Research* 112: 598-612. https://doi.org/10.1016/S0377-2217(97)00415-3

Wang, F. and J. A. Van Loo. 1998. Citizen participation in the North Delta Mississippi Community Development Block Grants, Empowerment Zones and Enterprise Communities. *Planning Practice and Research* 13: 443-451. https://doi.org/10.1080/02697459815996

Guldmann, J.-M. and F. Wang. 1998. Population and employment density functions revisited: a spatial interaction approach. *Papers in Regional Science* 77: 189-211. https://doi.org/10.1111/j.1435-5597.1998.tb00714.x

Wang, F. 1998. Modeling traffic emission rates with artificial neural networks. *Environment and Geographical Modelling* 2: 103-113.

Wang, F. 1998. Urban population distribution with various road networks: a simulation approach. *Environment and Planning B-Planning & Design* 25: 265-278. https://doi.org/10.1068/b250265

Wang, F. and J.-M. Guldmann. 1997. A spatial equilibrium model for region size, urbanization ratio, and rural structure. *Environment and Planning A* 29: 929-941. https://doi.org/10.1068/a290929

Wang, F. and J.-M. Guldmann. 1996. Simulating urban density with a gravity-based model. *Socio-Economic Planning Sciences* 30: 245-256. https://doi.org/10.1016/S0038-0121(96)00018-3

3b. Book Chapters in English (total = 16)

Wang, F. 2023. Four Methodological Themes in Computational Spatial Social Science. In: B Li, X Shi, A Zhu, C Wang, and Lin (Ed.), *New Thinking in GIScience*. Springer, Singapore, pp 275–282. https://doi.org/10.1007/978-981-19-3816-0_29

Wang, F., M. Vingiello, I. Xierali. 2020. Serving a segregated metropolitan area: disparities in spatial accessibility of primary care in Baton Rouge, Louisiana. In *Geospatial Technologies for Urban Health* (eds., Y. Lu and E. Delmelle), Springer, Cham, 75-94 [refereed].

Wong, D.W.S., Wang, F. 2018. Spatial analysis methods. In: Huang, B. (Ed.), *Comprehensive Geographic Information Systems*. Vol. 1, pp. 125–147. Oxford: Elsevier. doi: 10.1016/B978-0-12-409548-9.09598-1

Luo, W., Hartmann, J., Wang, F., Pingwen, H., Sysamouth, V., Li, J., Cang, X. 2018. GIS in Comparative-Historical Linguistics Research: Tai Languages. In: Huang, B. (Ed.), *Comprehensive Geographic Information Systems*. Vol. 3, pp. 157–180. Oxford: Elsevier. doi: 10.1016/B978-0-12-409548-9.09663-9

Wang, F., C. Fu and X. Shi. 2015. Planning towards maximum equality in accessibility of NCI Cancer Centers in the U.S., in *Spatial Analysis in Health Geography* (eds. P. Kanaroglou, E. Delmelle, and A. Paez). Farnham, Surrey, England: Ashgate, 261-274.

Croitoru, A., D. Guo, F. Wang, et al. 2011. Spatial data analysis and geoinformation extraction (Chapter 5), in *Advanced Geoinformation Science* (eds. C.P. Yang, D.W.S. Wong, Q. Miao, and R. Yang). Boca Raton, FL: CRC Press, 145-203 [refereed].

Aron, J. L., S. Luzzadder-Beach, M. Sun, F. Wang, et al. 2011. Environmental and related applications (Chapter 8), in *Advanced Geoinformation Science* (eds. C.P. Yang, D.W.S. Wong, Q. Miao, and R. Yang). Boca Raton, FL: CRC Press, 303-349 [refereed].

Mu, L., F. Wang and S. McLafferty. 2010. Analyzing spatial patterns of late-stage breast cancer in Chicago region: a modified scale-space clustering approach (Chapter 18), in

Geospatial Analysis and Modelling of Urban Structure and Dynamics (eds. B. Jiang and X. Yao). Dordrecht, the Netherlands: Springer Science+Business Media B.V., 355-371 [refereed].

Wang, F. and Y. Feliberty. 2010. Spatial distribution of toxic release inventory sites in Chicago area: is there environmental inequity? *Geospatial Techniques in Urban Hazard and Disaster Analysis* (ed. Pamela S. Showalter and Yongmei Lu), Springer, 157-177 [refereed].

Porta S, Latora V, Wang F, Rueda S, Cormenzana B, Càrdenas F, Latora L, Strano E, Belli E, Cardillo A, Scellato S. 2009. Correlating Densities of Centrality and Activities in Cities: The Cases of Bologna (IT) and Barcelona (ES), in *Planning, Complexity and New ICT* (ed. Rabino G, Castiglioni M), Alinea, Firenze, 37-45 [refereed].

Wang, F. 2009. Factor analysis and principal-components analysis, in *International Encyclopedia of Human Geography*, Vol. 4 (editors-in-chief: Rob Kitchin and Nigel Thrift), Oxford, UK: Elsevier, 1-7.

Wang, F. and W. Luo. 2005. GIS-based accessibility measures and application, in *Encyclopedia of Information Science and Technology* (ed. Mehdi Khosrow-Pour), Hershey, PA: Idea Group Publishing, 1284-1287 [refereed]

Wang, F. and V. O'Brien. 2005. Constructing geographic areas for analysis of homicide in small populations: testing the herding-culture-of-honor proposition, in *GIS and Crime Analysis* (ed. Fahui Wang), Hershey, PA: Idea Group Publishing, 84-100 [refereed]

Zhou, Y-X. and F. Wang. 2004. Suburbanization in Beijing, in *Changing China: A Geographical Appraisal* (eds. Chiao-min Hsieh and Max Lu eds), Boulder, Colorado: Westview Press, 311-325 [refereed]

Luo, W. and F. Wang. 2003. Spatial accessibility to primary care and physician shortage area designation: a case study in Illinois with GIS approaches, in *Geographic Information Systems and Health Applications* (eds. Omar Khan and Ric Skinner), Hershey, PA: Idea Group Publishing, 260-278 [refereed]

Wang, F., 1993. Statistical models of city-size distribution in China, in *Urban Development in China and South-East Asia* (eds. K.C. Tan, W. Taubmann, S. Ye), Bremen, Germany: Bremen University, 29-39 [refereed]

3c. Papers in Chinese (total = 22)
[See Appendix for a complete list]

IV. RESEARCH GRANTS

1/1/2023-12/31/2024: Senlin Chen (PI), Fahui Wang (co-I), Amanda Staiano, and Gang Hu. "Mapping Behavioral and Social Determinants of Health to Inform Louisiana Medicaid Delivery", Louisiana Department of Health, Grant No. AM-22-0978, $708,887.

2/1/2022-1/31/2027: Tracy Onega and Fahui Wang (MPIs), Anna N A Tosteson, Erika Moen, and Jennifer A Alford-Teaster (co-Investigators). "Access, Utilization and Outcomes of Cancer Services in the Era of Telemedicine", National Cancer Institute (NCI), National Institutes of Health (NIH), Grant No. R01CA267990-01, $1,830,578.

8/14/2017-7/31/2020: Tracy Onega and Fahui Wang (MPIs). "Automated Delineation of Cancer Service Areas", National Cancer Institute (NCI), National Institutes of Health (NIH), Grant No. R21CA212687, $392,344.

10/1/2012-9/30/2015: Cecile C Guin (PI), Juan J Barthelemy, Matthew R Lee, Tracey Rizzuto, Edward Shihadeh, Fahui Wang. "Evaluation of Project BRAVE (Baton Rouge Area Violence Elimination)", Office of Juvenile Justice and Delinquency Prevention (OJJDP), U.S. Department of Justice, Grant No. 2012-PB-FX-K001, $1,499,993.

9/1/2011-8/31/2014: Christopher D. White (PI), Jeffrey S. Hanor, Chacko J. John, Mark J. Kaiser, Mileva Radonjic, Mayank Tyagi, Fahui Wang. "Innovative Geothermal Heat Extraction by Wellbore Energy Conversion, Zero Mass Withdrawal, and Engineered Pycnal Flow", U.S. Department of Energy, Grant No. DE-EE0005125, $997,332.

01/01/2010-12/31/2014: Ming Wen (PI). "Neighborhood Built and Social Environment and Physical Activity and Weight Status," National Institute of General Medical Sciences (NIGMS), National Institutes of Health (NIH), Grant No. R01CA140319-01A1, $1.2 million (my role: senior consultant).

9/1/2009-8/31/2011: Fahui Wang and Yu Liu (co-PIs), "Evolutions of Transport Networks and Systems of Cities in China 1906-2008," Oversea Collaborative Project, National Natural Science Foundation of China, Grant No. 40928001, 200,000 RMB (equivalent to US$35,000).

8/1/2009-7/31/2010: Fahui Wang (PI), Vivien Chen and Xiaocheng Wu, "Constructing Geographic Areas in GIS for Cancer Data Analysis," SEER-RRSS Program, National Cancer Institute (NCI), Grant No. NCI-N01-PC-54402, $63,529.

9/15/2006-2/28/2011: John Hartmann (PI), Fahui Wang and Wei Luo, "A Regional Approach to Spatial Analysis of Tai Toponyms in Southern China and Southeast Asia Using GIS," National Science Foundation (NSF), Grant No. BCS-0623108, $124,963.

4/1/2005-3/31/2007: Fahui Wang (PI) and Sara McLafferty, "Late-Stage Cancer Clusters and Healthcare Access," National Cancer Institute (NCI), National Institutes of Health (NIH), Grant No. R21-CA114501, $207,585.

4/1/2004-9/30/2005: Fahui Wang (PI), "Job Access in Disadvantaged Neighborhoods in Cleveland, 1980-2000: Implications for Spatial Mismatch and Association with Crime Patterns," U.S. Department of Housing and Urban Development (HUD), Grant No. G2A62172, $40,000.

09/2001-03/2004: Wei Luo (PI), Fahui Wang (Co-PI) and Carolina Douglass, "Primary-Care Physician Shortage Areas and Health Care Accessibility: A GIS Approach," Agency

for Healthcare Research and Quality (AHRQ), U.S. Department of Health and Human Services (DHHS), Grant No. R03-HS11764, $100,000.

01/2000-12/2001: Fahui Wang (PI) and W. William Minor, "Is Job Accessibility Relevant to Crime Patterns: A GIS Approach," National Institute of Justice (NIJ), U.S. Department of Justice (DOJ), Grant No. 2000-IJ-CX-0023, $34,996.

Other Research and Educational Grants

08/2018-08/2022: Fahui Wang, "Location and Colocation Behavior of Business in Louisiana," Economic Development Assistantship, LSU Graduate School, $100,000

08/2012-08/2016: Fahui Wang, "Geographic and Racial Disparities in Job Accessibility in Baton Rouge 1980-2010: Implications and Policy Remedies," Economic Development Assistantship, LSU Graduate School, $100,000

V.   COURSES TAUGHT

Northern Illinois University

- GEOG 204: Geography of Economic Activities
- GEOG 304: Transportation Geography
- GEOG 338: Geography of Asia
- GEOG 359: Introduction to GIS
- GEOG 362: Urban Systems
- GEOG 459: GIS
- GEOG 463: Urban Geography
- GEOG 464: Location Theory
- GEOG 504: Concepts of Human Geography

Louisiana State University

- GEOG 1003: Human Geography (Africa & Asia)
- GEOG 4037: Geography of China
- GEOG 4047: GIS
- GEOG 4073: Urban Geography
- GEOG 4077: Economic Geography
- GEOG 7935: Quantitative Methods for Geographical Analysis
- GEOG 7945: Socioeconomic Applications of GIS
- GRAD 7004: Learning Through Evidence-Based Teaching

VI.   THESES AND DISSERTATIONS DIRECTED

Northern Illinois University

- MS (total = 11):

Richard D Minnick. 1999. Airport Induced Industrial Land Use Change: A Cartographic Approach to Representing Change (co-chair with John Harlin)

Mark L Healy. 2001. The Importance of German Immigration as a Locational Factor in the Illinois Brewing Industry: 1870-1920

Shuhei Hayakawa. 2002. The Change of Population Distribution Patterns in Chicago from 1980 to 1990: A Density Functions Approach

Larry J Lindenmier. 2002. Student's Achievement Gap in Illinois: Socioeconomic Status or School District?

Matthew K Fitzgibbon. 2003. The Spatial Variation of Labor Productivity and Its Relationship to Population Density - U.S. Industries at the County Level in 1997

Van O'Brien. 2004. Constructing geographic areas for analysis of homicide in small populations: testing the herding-culture-of-honor proposition

Aaron S McLean. 2004. A Trade Area Analysis of Two Major League Baseball Teams in the Chicago CMSA: A Gravity Model and Nearest Neighbor Approach

Jodi L Heitkamp. 2006. Limitations of GIS in Map Production: Illustrations by Examples.

Martin T Arnold. 2007. Relative Deprivation, Concentrated Disadvantage, and Homicide in Chicago: An Analysis at Multiple Geographic Levels

Yvette C Feliberty. 2007. Spatial Distribution of Toxic Release Inventory Sites in Illinois: Is there Environmental Inequity?

Lan Luo. 2007. An Exploratory Spatial Analysis of Late-Stage Cancer Diagnosis in Illinois 1998 to 2000

Louisiana State University

- PhD (total = 13):

Angela Antipova. 2010. Land Uses, Individual Attributes and Travel Behavior in Baton Rouge, Louisiana

Myrtho Joseph. 2012. Urban Population Density and Environmental Quality in Port-au-Prince, Haiti: A Geo-Statistical Analysis

Yanqing Xu. 2014. Built Environment and Risk of Obesity in the United States: A Multilevel Modeling Approach

Cong Fu. 2015. Planning Towards Equal Spatial Accessibility of NCI Cancer Centers Across Geographic Areas and Demographic Groups in the U.S.

Peng Jia. 2015. Delineating Hospital Service Areas in Florida Based on Patients' Travel Patterns

Yujie Hu. 2016. Temporal Trends of Intraurban Commuting in Baton Rouge 1990-2010

Cuiling Liu. 2019. Analyzing the Population Density Pattern in China with a GIS-Automated Regionalization Method: Hu Line Revisited

Xuan Kuai. 2019. Deciphering Public Transit Ridership in Baton Rouge: Spatial Disaggregation Approaches

Haojie Zhu. 2020. Building an Agent-Based Crime Simulation with Environmental Criminology and Time Geography: A Case Study of Robberies in Baton Rouge, Louisiana

Ya Han. 2021. Predictive Crime Hotspot Analysis with the Spatiotemporal Kernel Density Estimation Method Accounting for a Cyclical Trend: A Case Study in Baton Rouge

Shaun Williams. 2022. A Street-Based Simulation Approach to Evaluating Crime Theories and Deterrence Efficacy in Baton Rouge, Louisiana

Changzhen Wang. 2022. GIS Automated Delineation and Analysis of Cancer Service Areas in the United States

Zeliu Zheng. 2024. Spatial Behavior of Hospital Visits by Hand, Foot, and Mouth Disease Patients in Nanchang, China

- MS (total = 7):

Luke Driskell. 2010. Mapping the Digital Divide in Neighborhoods: Wi-Fi Access in Baton Rouge, Louisiana

Weijie Wang. 2012. Modeling Population Patterns in New Orleans 2000-2010: A Density Function Approach

Shaun Williams. 2012. Socio-spatial Analysis of Public High School Accessibility in Metropolitan Baton Rouge, Louisiana 1990-2010

Ling Zhang. 2012. GIS-Based Spatial Analysis of Place Names in Yunnan, China

Keenan Robert. 2013. Constructing Geographic Areas for Homicide Research: A Case Study of New Orleans, Louisiana

Samina Ikram. 2014. Disparities in Accessibility to Pharmacies: A Case Study in East Baton Rouge Parish, Louisiana

Xuan Kuai. 2015. Examining Healthy Food Accessibility in Baton Rouge, Louisiana Using a Huff-modified 2SFCA Method

VII. PROFESSIONAL RECOGNITIONS

1. AWARDS

2023 International Association of Chinese Professionals in Geographic Information Science (CPGIS) Distinguished Scholar Award

2022 Distinguished Research Master Award, LSU

2020 Cyril & Tutta Vetter Alumni Professor, LSU

2018 Distinguished Faculty Award, LSU

2015 Outstanding Article of the Year – Policy Winner (co-authors: P Jia and I. Xierali), Healthcare Cost and Utilization Project (H-CUP), Agency for Healthcare Research and Quality, U.S. Department of Health and Human Services.

2015 International Association of Chinese Professionals in Geographic Information Science (CPGIS) Excellence in Education Award

2015 LSU Rainmaker Senior Scholar (for outstanding research, scholarship and creative activity)

2006 International Association of Chinese Professionals in Geographic Information Science (CPGIS) Best Service Award

2. UNIVERSITY SERVICE ROLES

2021-2024   PS-109 Advisory Board, LSU

2021   Graduate Council, LSU

2022   Alumni Professorship Review Committee

3. SOCIETY MEMBERSHIPS AND NOTABLE SERVICE ROLES

2022: External Program Reviewer for Geospatial Information Sciences Program, University of Texas at Dallas

2020: External Program Reviewer for Department of Geosciences, Georgia State University

2014: Geographic Information Science & Technology Body of Knowledge (GIS&T BoK) Task Force Steering Committee, University Consortium for Geographic Information Science (UCGIS)

2010-2012: Board of Directors, Applied Geography Conferences, Inc.

2004-2007: Vice-Chair, Spatial Analysis and Modeling (SAM) Specialty Group, Association of American Geographers (AAG)

2001-2002: President, International Association of Chinese Professionals in Geographic Information Science (CPGIS)

4. FELLOWSHIPS

6/10-6/30/2017, European Union Erasmus+ Visiting Professorship, Université Grenoble Alpes, France, Euro$3,746.

06/1997-05/1998: "Commuting Pattern, Job Accessibility and Juvenile Crimes in Chicago: A Research Framework for Three Stepwise Projects," 1997-1998 Faculty Fellowship of the Social Science Research Institute, Northern Illinois University, $11,036.

5. JOURNAL EDITORIAL BOARDS

Annals of GIS (2008-)

Chinese Geographical Science (2007-)

Annals of the Association of American Geographers (2010-2013)

Applied Geography (2014-2021)

6. GRANT REVIEW PANELS

Healthcare and Health Disparities Study Section (HHD), Center for Scientific Review (CSR), National Institutes of Health (standing member 2022-2026)

Social and Behavioural Science Panel (H2), Hong Kong Research Grant Council (2021-)

Geography and Spatial Sciences Program, National Science Foundation (2014-2015)

Geospatial Technologies Program, National Institute of Justice (2010)

Community Development Work-Study Program, U.S. Department of Housing and Urban Development (2001)

Expert reviewer for international agencies:

National Natural Science Foundation of China (2009-)

Chang Jiang Scholars Program, Ministry of Education, China (2011, 2012, 2014, 2016)

Habilitation at the Institute of Geography, Heidelberg University, Germany (2015)

Netherlands Organisation for Scientific Research (NWO) (2014)

Health Research Council of New Zealand (HRC) (2021)

7. NOTABLE LECTURES

February 11, 2023, "Four Methodological Themes in Spatial Health Sciences", keynote speech, the 4th Annual National Big Data Health Science Conference, University of South Carolina, Columbia, South Carolina.

April 7, 2022, "A New Planning Paradigm: The Maximal Accessibility Equality Problem (MAEP)", New Urban Researcher Seminar Series, the Faculty of Architecture, the University of Hong Kong, Hong Kong.

January 22, 2021, "Why Public Health Needs GIS", PhD Students Seminar, School of Public Health, The University of Texas Health Science Center at Houston (UTHealth).

July 10, 2019, "Why Public Health Needs GIS", Keynote Speech, the 10th Forum on Spatially Integrated Humanities and Social Sciences, Wuhan University, Wuhan, China.

June 26, 2018, "Big Data, Better Stories", Keynote Speech, 35th Hongmen Forum on Spatiotemporal Big Data and Future Cities, Peking University, Beijing, China.

May 17, 2018, "Place Matters When Developing Public Health Policy", Invited Panelist, Texas State Health & GIS Conference, Round Rock, Texas.

May 12, 2017, "Three GIS-Automated Tools for Public Health Studies and Beyond", the COHPA Research Methods Speaker Series, University of Central Florida, Orlando, Florida.

Jan 23, 2017, "GIS-Powered Social Sciences and Public Policy", the Kinder Institute for Urban Research Speaker Series, Rice University, Houston, Texas.

December 23, 2016, "Tell Better Stories in GIS", the Zhizhuo Undergraduate Forum Speaker Series, College of Remote Sensing, Wuhan University, China.

November 8, 2014, "Transportation, Human Mobility and Public Policy", the Beijing Forum, Beijing, China.

June 19, 2013, "Quantifying Qualitative Spatial Issues in GIS", Keynote Speech, the 4th Forum on Spatially Integrated Humanities and Social Sciences, Henan University, Kaifeng, China.

May 26, 2013, "Transport Networks and Human Settlement: A Sino-US Comparative Perspective", the Shanghai Forum, Shanghai, China.

July 11, 2012, "Quantifying Qualitative Issues in Geography", the Shi-Jian Distinguished Speaker Series, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing, China.

April 12, 2011, "Inequality in Healthcare Access and Late-stage Cancer Diagnosis", the Control and Population Sciences Research Program Speaker Series, Huntsman Cancer Institute Cancer, University of Utah, Salt Lake City, Utah.

September 21, 2010, "Urbanization, Urban Development and Digital City", the Pingshan Distinguished Speaker Series, Shenzhen, China.

August 9, 2010, "Inequality in Healthcare Access and Late-stage Cancer Diagnosis", the Cancer Prevention Institute of California (CPIC) Speaker Series, Fremont, California.

April 21, 2010, "Public Policy Lessons from the US-China Comparative Urban Studies", the Hubei Provincial Government Distinguished Speaker Series on Urbanization, Wuhan, China.

December 3, 2009, "Spatial Social Sciences and Public Policy", the Bo-Ya Distinguished Speaker Series, Central China Normal University, Wuhan, China.

March 16, 2009, "Why Humanities and Social Sciences Need GIS?" Keynote Speech, the 1st Forum on Spatially Integrated Humanities and Social Sciences, Chinese University of Hong Kong, Hong Kong, China.

October 16, 2008, "Geographic Disparities in Late-Stage Cancer and Health Care Access", the Dickey Center for International Understanding Speaker Series, Dartmouth College, Hanover, New Hampshire.

May 5, 2007, "Geographic Inequality in Healthcare Access and Late-Stage Breast Cancer in Illinois", Memorial Sloan-Kettering Cancer Center (MSKCC) Speaker Series, New York.

VIII.　APPENDIX

1.　REFEREED JOURNAL PAPERS IN CHINESE (total = 15)
（中文杂志论文）

[Corresponding author in bold (黑体字为通讯作者)]

王法辉，1989，"中国封建社会长期延续的地理思考" 《经济地理》9 卷 1 期 44-49 页

王法辉，1989，"我国城市规模分布的统计模式研究" 《城市问题》8 卷 1 期 14-20 页

杨齐、**王法辉**.1990. "城镇发展条件的评价方法—以漳州市为例" 《地域研究与开发》9 卷 3 期 20-27 页

王法辉、金凤君、曾光，2003，"我国航空客运网络的空间演化机制与模式研究" 《地理科学》23 卷 5 期 519-525 页

顾朝林、王法辉、刘贵利，2003，"北京城市社会区分析" 《地理学报》58 卷 6 期 917-926 页

王法辉、金凤君、曾光， 2004， "区域人口密度函数与增长模式:兼论城市吸引范围划分的 GIS 方法" 《地理研究》23 卷 1 期 97-103 页

王法辉、胡忆东，2010，"芝加哥制造业发展过程及区位因素分析"《地理科学》30 卷 2 期 175-183 页

王法辉，2011，"社会科学和公共政策的空间化和 GIS 的应用"《地理学报》66 卷 8 期 1089-1100 页

王法辉、王冠雄、李小娟，2013，"广西壮语地名分布与演化的GIS分析"，《地理研究》32 卷 3 期 487-496 页

陈晨、王法辉、修春亮，2013，"长春市商业网点空间分布与交通网络中心性关系研究，《经济地理》33 卷 10 期 40-47 页

王法辉、刘瑜、王姣娥，2014，"交通网络与城市结构研究：理论框架与中美两国实证案例"，《地理科学进展》33 卷 10 期 1289-1299 页

刘瑜、康朝贵、王法辉，2014，"大数据驱动的人类移动模式和模型研究"，《武汉大学学报(信息科学版)》06 期 660-666 页

刘瑜、姚欣、龚咏喜、康朝贵、施迅、王法辉、王姣娥、张毅、赵鹏飞、朱递、朱欣焰，2020，"空间交互分析方法和应用：大数据时代的再讨论"，《地理学报》75 卷 7 期 1523-1538 页 (Liu et al. 2020. Analytical methods and applications of spatial interactions in the era of big data. ACTA GEOGRAPHICA SINICA 75: 1523-1538)

王法辉，戴特奇. 公共资源公平配置的规划方法与实践[J]. 城市与区域规划研究，2020，12(2)：28-40 (WANG F H, DAI T Q. Spatial optimization and planning practice towards equal access of public services[J]. Journal of Urban and Regional Planning, 2020, 12(2): 28-40)

乐阳，刘瑜，陈云松，贺力，陈晨，李文雯，秦昆，贾涛，许刚，王法辉，王静远，谢幸，徐丰力，徐阳，苏世亮，桂志鹏，游兰，张明达，张丰，张晓祥，赵博，赵耀龙，周钰伦，黄波，曹凯. 2022. "空间和地理计算与计算社会学的融合路径"[J]，《武汉大学学报：

信息科学版》 47(1): 1-18. doi: 10.13203/j.whugis20210619 (YUE Yang, LIU Yu, CHEN Yunsong, HE Li, CHEN Chen, LI Wenwen, QIN Kun, JIA Tao, XU Gang, WANG Fahui, WANG Jingyuan, XIE Xing, XU Fengli, XU Yang, SU Shiliang, GUI Zhipeng, YOU Lan, ZHANG Mingda, ZHANG Feng, ZHANG Xiaoxiang, ZHAO Bo, ZHAO Yaolong, ZHOU Yulun, HUANG Bo, CAO Kai. Integration Path of Spatial and Geo-Computing and Computational Social Science[J]. Geomatics and Information Science of Wuhan University, 2022, 47(1): 1-18. doi: 10.13203/j.whugis20210619)

2. BOOK CHAPTERS IN CHINESE (total = 7)
（中文书章节)

王法辉，2010，"为什么人文学与社会科学亟需 GIS?"，《空间综合人文学与社会科学研究》（林珲,赖进贵,周成虎编)（科学出版社)，3-16 页

王冠雄、王法辉等，2010，"基于 GIS 的壮语地名空间分布研究——以广西壮族自治区为例"，《空间综合人文学与社会科学研究》（林珲,赖进贵,周成虎编)（科学出版社)，162-176 页

蔡颖、侯杨方、王法辉，2012，"1936-1946 中国人口密度的分布和变化"，《中國近代城市文化的動態發展：人文空間的新視野》（蘇基朗主編)浙江大學出版社 ，99-116 页

张佩瑶、苏基朗、林珲、王法辉，2012,"从历史 GIS 角度看民国中西医服务与城市交通的关系"，《中國近代城市文化的動態發展：人文空間的新視野》（蘇基朗主編)浙江大學出版社， 84-98 页

王法辉、罗卫、程杨，2016，"就医便捷度的度量、影响与优化"，《地理信息技术在公共卫生与健康领域的应用》（施讯、王法辉编)，高等教育出版社，183-209 页

罗卫、依玛木.西尔艾力、王法辉， 2016，"美国缺医区划分的实践与改进前景"，《地理信息技术在公共卫生与健康领域的应用》（施讯、王法辉编)，高等教育出版社，227-246 页

王法辉、陶卓霖、程杨，2017，"医疗服务的空间分布、区划和优化布局"，《地理信息科学前沿》（林珲、施讯编)，高等教育出版社，384-409 页

3. PUBLICATION CITATION INFORMATION

Google Scholar:

> http://scholar.google.com/citations?user=b7GNV6UAAAAJ&hl=en&oi=ao
> (13,472 citations, h-index = 54)

Web of Science:

> https://www.webofscience.com/wos/author/record/172794 (6,512 citations, h-index = 40)

Research Gate:

> https://www.researchgate.net/profile/Fahui_Wang (10,188 citations, h-index = 48)