

CURRICULUM VITAE

Danlin Yu, Ph.D.
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GENERAL INFORMATION

Education

April 2005, Ph.D. Department of Geography, University of Wisconsin-Milwaukee.
Dissertation title: "GIS and Spatial Modeling in Regional Development Studies: A Case of Greater Beijing"

June 1997, M.S., Department of Geography, Lanzhou University, Lanzhou, P.R. China
Thesis title: "Studies on the Urban Traffic Efficiency: Case Study on Lanzhou"

Jun 1994, B.S. Department of Geography. Changsha Electric Power University. Changsha, P.R. China

Appointments

2016 – present: Full Professor, Department of Earth and Environmental Studies, Montclair State University. Director of Geographic Information System Minor.

2010 – 2016: Associate Professor, Department of Earth and Environmental Studies, Montclair State University. Director of Geographic Information System Minor.

2009 – present: Coordinator of Graduate Geographic Information System Certificate, founding member.

2005 – 2010: Assistant Professor, Department of Earth and Environmental Studies, Montclair State University.

Major Research Interests:

- Urban public health
- Complex system modeling
- GIS, spatial econometrics, spatial analysis, data science
- Environmental sustainability
- Urban remote sensing

Biography

Dr. Danlin Yu is a distinguished Geographic Information Scientist, urban public and environmental health scholar, and complex system simulative modeler with extensive expertise in urban remote sensing, spatial data science, and complex system modeling. His research primarily focuses on geographic information analysis, urban remote sensing, system dynamic modeling for complex systems and their applications on urban public health studies. He is listed as one of the top 2% scientists by Stanford and Elsevier since 2020.

Dr. Yu has over a decade of experience in geographic information analysis and complex system modeling, including application and methodological development. He pioneers the development of an AI/Machine Learning integrated covariation-mining modeling strategy in his recent US Department of Housing and Urban Development grant. He has published widely in these fields, with over 100 peer-reviewed articles in high-caliber journals with wide international circulation and three collaborative books on urban development and urbanization in China. His strong statistical analysis skills are applied to urban and regional planning, public health, environmental management, and population prediction.

A notable aspect of Dr. Yu's career is his work as a system dynamics modeler studying urban sustainability and environmental health. He is currently the Principal Investigator (PI) for a US Department of Housing and Urban Development (HUD) funded project titled "A system dynamics simulative model to assess bioaccessibility of lead in the environment, Jersey City, New Jersey," with a total funding of \$699,981. This project aims to develop interactive and operational modeling frameworks for policymakers, the general public, and the academic community to simulate various policy scenarios affecting lead bioaccessibility.

Dr. Yu is also preparing to submit new project proposals to the National Science Foundation (NSF), including those focused on covariation-mining and system dynamics modeling, seeking funding of over \$2 million. These proposals will further explore innovative approaches to urban public health and environmental management.

Currently, Dr. Yu serves as the associate editor of the ASCE's Journal of Urban Planning and Development and as an academic editor for PeerJ and Remote Sensing. He is well recognized in the field of spatial data analysis. Collaborating with leading spatial economist Dr. Roger Bivand, Dr. Yu co-authored the R package "spgwr" for geographically weighted regression analysis. He is also leading the development of an R package for "geographically weighted panel regression," a method he proposed and has been developing since 2010.

RESEARCH

Recent Publications

Selected Peer-reviewed articles (of 100+, in English)

1. Fabolude, G., C. Knoble, A. Vu & **D. Yu** (corresponding author). 2024. Smart cities, smart systems: A comprehensive review of system dynamics model applications in urban studies in the big data era. *Geography and Sustainability*.
<https://doi.org/10.1016/j.geosus.2024.10.002>

2. Yu, D. 2024. Agglomeration. In: Warf, B. (eds) *The Encyclopedia of Human Geography*. Springer, Cham. https://doi.org/10.1007/978-3-031-25900-5_225-1
3. Knoble, C., Fabolude, G., Vu, A. **Yu, D** (corresponding author). From crisis to prevention: mining big data for public health insights during the flint water crisis. *Discover Sustainability* 5, 289 (2024). <https://doi.org/10.1007/s43621-024-00514-w>
4. Zhe Wang, Jianghua Zheng, Chuqiao Han, Binbin Lu, **Danlin Yu**, Juan Yang, Linzhi Han. 2024. A comprehensive assessment approach for multiscale regional economic development: Fusion modeling of nighttime lights and OpenStreetMap data. *Geography and Sustainability*, DOI: <https://doi.org/10.1016/j.geosus.2024.08.009>
5. Gift Fabolude, Charles Knoble, Anvy Vu, **Danlin Yu** (corresponding author). 2024. Comprehensive Lead Exposure Vulnerability for New Jersey: Insights from a Multi-Criteria Risk Assessment and Community Impact Analysis Framework. *Ecological Indicators*, DOI: <https://doi.org/10.1016/j.ecolind.2024.112585>
6. Rae Cadea, **Danlin Yu**, Kyle Whyte, Pankaj Lal, Cortni Borgerson. 2024. Environmental justice indicators: Evaluating their effectiveness in identifying at-risk communities for drinking water violations. *Cleaner Water*, 2024, 2, 100035, doi: <https://doi.org/10.1016/j.clwat.2024.100035>
7. **Danlin Yu**, Shenyang Guo, Yuanyuan Yang, Linyun Fu, Timothy McBride & Ruopeng An. 2024 Governance Policy Evaluation in the US During the Pandemic: Non-pharmaceutical Interventions or Else? *Annals of Association of American Geographers*. ID: 2292807 DOI:10.1080/24694452.2023.2292807
8. Zhe Wang; Jianghua Zheng; Chuqiao Han; Binbin Lu; **Danlin Yu**; Juan Yang; Linzhi Han. 2024 Exploring the Potential of OpenStreetMap Data in Regional Economic Development Evaluation Modeling. *Remote Sensing*, 16(2), 239; DOI: <https://doi.org/10.3390/rs16020239>
9. Rae Cade, **Danlin Yu**, Kyle Whyte, Pankaj Lal, and Cortni Borgerson. 2023. Poor Water Quality Persists in Diverse Urban Communities. *Water*, 2023, 15(19), 3446; <https://doi.org/10.3390/w15193446>.
10. Charles Knoble, **Danlin Yu** (co-first author, corresponding author). 2023. Bridging the Gap: Analyzing the Relationship Between Environmental Justice Awareness on Twitter and Socio-Environmental Factors Using Remote Sensing and Big Data. *Remote Sensing*, 2023, 15(23), 5510; <https://doi.org/10.3390/rs15235510>.
11. Jianghua Zheng, **Danlin Yu** (co-first author, corresponding author), Chuqiao Han, and Zhe Wang. 2023. Urban vulnerability analysis based on micro-geographic unit with multi-source data— case study in Urumqi, Xinjiang, China. *Remote Sensing*, 15, 3944. DOI: 10.3390/rs15163944.

12. **Danlin Yu**, Yaojun Zhang, Jun Meng, Xiaoxi Wang, Linfeng He, Meng Jia, Jie Ouyang, Yu Han, Ge Zhang, Yao Lu. 2023. Seeing the forest and the trees: holistic view of social distancing on the spread of COVID-19 in China. *Applied Geography*. DOI: 10.1016/j.apgeog.2023.102941
13. Tsung-Ta David Hsu, **Danlin Yu** (corresponding author), and Meiyin Wu. 2023. Predicting Fecal Indicator Bacteria Using Spatial Stream Network Models in A Mixed-Land-Use Suburban Watershed in New Jersey, USA. *International Journal of Environmental Research and Public Health*, 2023, 20(6), 4743; <https://doi.org/10.3390/ijerph20064743>
14. Charles Knoble, **Danlin Yu** (corresponding author), 2023. Environmental Justice: an evolving concept in a dynamic era. *Sustainable Development*, 1 – 18, DOI: 10.1002/sd.2519
15. **Danlin Yu**, Chuanglin Fang, 2023. Urban Remote Sensing with Spatial Big Data: A Review and Renewed Perspective of Urban Studies in Recent Decades. *Remote Sensing* 2023, 15(5), 1307; <https://doi.org/10.3390/rs15051307>
16. Jianhao Li, Jingyun Guan, Wangqiang Han, Ruikang Tian, Binbin Lu, **Danlin Yu**, and Jianghua Zheng, 2023. Important role of precipitation in controlling a more uniform spring phenology in the Qinba Mountains, China. *Frontier in Plant Science*, 14:1074405. doi: 10.3389/fpls.2023.1074405
17. **Danlin Yu**, Chuanglin Fang, 2022. How Neighborhood Characteristics Influence Neighborhood Crimes: A Bayesian Hierarchical Spatial Analysis. *International Journal of Environmental Research and Public Health*, 19(18), 11416; DOI: <https://doi.org/10.3390/ijerph191811416>
18. **Danlin Yu**, Nicholas A. Procopio, and Chuanglin Fang, 2022. Simulating the Changes of Invasive Phragmites australis in a Pristine Wetland Complex with a Grey System Coupled System Dynamic Model: A Remote Sensing Practice. *Remote Sensing*, 14(16), 3886; DOI: <https://doi.org/10.3390/rs14163886>
19. **Danlin Yu**, Yaojun Zhang, 2022. China's place attractivity, population mobility and its mechanisms: Perspectives from a full spectrum of spatial analyses. *Population, Space, and Place* e2596, DOI: <https://doi.org/10.1002/psp.2596>
20. Xiaoxi Wang, Yaojun Zhang, **Danlin Yu** (corresponding author), Jinghan Qi, Shujing Li. 2022. Investigating the spatiotemporal pattern of urban vibrancy and its determinants: Spatial big data analyses in Beijing, China. *Land Use Policy*, DOI: <https://doi.org/10.1016/j.landusepol.2022.106162>
21. Xiaoxi Wang , Yaojun Zhang, **Danlin Yu** (corresponding author), Xiwei Wu, and Ding Li. 2022. Changes in Demographic Factors' Influence on Regional Productivity Growth:

Empirical Evidence from China, 2000–2010, *Sustainability*. DOI: <https://doi.org/10.3390/su14074195>

22. Chuqiao Han, Jianghua Zheng, Jingyun Guan, **Danlin Yu**, Binbin Lu. 2022, Evaluating and simulating resource and environmental carrying capacity in arid and semiarid regions: A case study of Xinjiang, China. *Journal of Cleaner Production*. DOI: <https://doi.org/10.1016/j.jclepro.2022.130646>
23. Xiwei Wu, **Danlin Yu** (corresponding author), Yaojun Zhang, Ding Li, Xiaoxi Wang. 2022, Low Fertility Spread in China: A Blended Adaptation and Diffusion Explanation. *Population, Space and Place*. DOI: <https://doi.org/10.1002/psp.2555>
24. **Danlin Yu**, Yaojun Zhang, Xiwei Wu, Ding Li, Guangdong Li. 2021, The varying effects of accessing high-speed rail system on China's county development: A geographically weighted panel regression analysis. *Land Use Policy*, 100. DOI: <https://doi.org/10.1016/j.landusepol.2020.104935>
25. Ying He, Bingyang Lv, **Danlin Yu** (corresponding author). 2021, How does spatial proximity to the high-speed railway system affect inter-city market segmentation in China: a spatial panel analysis. *Eurasian Geography and Economics*. <https://doi.org/10.1080/15387216.2020.1828122>
26. Shenyang Guo, Ruopeng An, Timothy D. McBride, **Danlin Yu**, Linyun Fu, and Yuanyuan Yang. 2020. Mitigation Interventions in the United States: An Exploratory Investigation of Determinants and Impacts. *Research on Social Work Practice*. 1 – 16, DOI: 10.1177/1049731520957415
27. **Danlin Yu**, Yaojun Zhang, Xiwei Wu. 2020. How socioeconomic and environmental factors impact on different groups of people's migration destination choices in China: An eigenfunction based spatial filtering analysis. *Population and Environment*, 41, pages372–395.
28. **Danlin Yu**, Daisuke Murakami, Yaojun Zhang, Xiwei Wu, DingLi, Xiaoxi Wang, Guangdong Li. 2020. Investigating high-speed rail construction's support to county level regional development in China: An eigenvector based spatial filtering panel data analysis. *Transportation Research Part B: Methodological*, Volume 133, March 2020, Pages 21-37. DOI: <https://doi.org/10.1016/j.trb.2019.12.006>
29. Jingzhe Wang, Jianli Ding, **Danlin Yu**, Dexiong Teng, Bin He, Xiangyue Chen, Xiangyu Ge, Zipeng Zhang, Yahui Guo, Xiaodong Yang. 2020, Machine learning-based detection of soil salinity in an arid desert region, Northwest China: A comparison between Landsat-8 OLI and Sentinel-2 MSI, *Science of the Total Environment*. 707: 136092, pages 1 – 11. DOI: <https://doi.org/10.1016/j.scitotenv.2019.136092>
30. Jingzhe Wang, Tiezhu Shi, **Danlin Yu**, Dexiong Teng, Xiangyu Ge, Zipeng Zhang, Xiaodong Yang, Hanxi Wang, Guofeng Wu, 2020. Ensemble machine-learning-based

framework for estimating total nitrogen concentration in water using drone-borne hyperspectral imagery of emergent plants: A case study in an arid oasis, NW China. *Environmental Pollution*. DOI: <https://doi.org/10.1016/j.envpol.2020.115412>.

31. Lardier, D.T., Reid, R.J., **Yu, Danlin (corresponding author)**. Garcia-Reid, P. 2019. A Spatial Analysis of Alcohol Outlet Density and Abandoned Properties on Violent Crime in Paterson New Jersey. *Journal of Community Health*. <https://doi.org/10.1007/s10900-019-00772-0>
32. Yaojun Zhang, **Danlin Yu (corresponding author)**, Qiao Cen, 2019. Investigating China's inter-prefecture migration from a place attractivity perspective, its spatial patterns, and demographic characteristics. *Demographic Research*, Volume 41, Article 34, 1007 – 1020, DOI: 10.4054/DemRes.2019.41.34
33. Jingzhe Wang, Jianli Ding, **Danlin Yu (corresponding author)**, Xuankai Ma, Zipeng Zhang, Xiangyu Ge, Dexiong Teng, Xiaohang Li, Jing Liang, Ivan Lizaga, Xiangyue Chen, Lin Yuan, Yahui Guo. 2019. Capability of Sentinel-2 MSI data for monitoring and mapping of soil salinity in dry and wet seasons in the Ebinur Lake region, Xinjiang, China. *Geoderma*, 353:172-187 <https://doi.org/10.1016/j.geoderma.2019.06.040>
34. Bo Fu, **Danlin Yu (corresponding author)**, Yaojun Zhang. 2019. The livable urban landscape: GIS and remote sensing extracted land use assessment for urban livability in Changchun Proper, China. *Land Use Policy*, 87, <https://doi.org/10.1016/j.landusepol.2019.104048>
35. Jianli Ding, Aixia Yang, Jingzhe Wang, Vasit Sagan and **Danlin Yu (corresponding author)**. 2019. Machine-learning-based quantitative estimation of soil organic carbon content by VIS/NIR spectroscopy. *PeerJ*, DOI 10.7717/peerj.5714
36. Jingzhe Wang, Jianli Ding, Guannan Li, Jing Liang, **Danlin Yu (corresponding author)**, Tayierjiang Aishan, Fang Zhang, Jinming Yang, Aertzuna Abulimiti, Jie Liu. 2019. Dynamic detection of water surface area of Ebinur Lake using multi-source satellite data (Landsat and Sentinel-1A) and its responses to changing environment, *Catena*, 177 (2019) 189–201, <https://doi.org/10.1016/j.catena.2019.02.020>
37. Zhang, Chuanguo; Shi, Xueyang; **Yu Danlin**. 2018. The effect of global oil price shocks on China's precious metals market: A comparative analysis of gold and platinum. *Journal of Cleaner Production*, 186 (2018) 652 – 661
38. Bevacqua Anthony; **Yu Danlin (corresponding author)**; Zhang, Yaojun. 2018. Coastal vulnerability: Evolving concepts in understanding vulnerable people and places. *Environmental Science and Policy*, 82: 19 – 29.
39. Zhang, Chuanguo; Liu, Feng; **Yu Danlin**. 2018. Dynamic jumps in global oil price and its impacts on China's bulk commodities. *Energy Economics*, 70: 297 – 306.

40. **Yu Danlin**; Fang, Chuanglin; 2017. The dynamics of public safety in cities: A case study of Shanghai from 2010 to 2025. *Habitat International*, 69: 104 – 113.
41. Fang, Chuanglin; **Yu Danlin (corresponding author)**. 2017. Urban agglomeration: An evolving concept of an emerging phenomenon. *Landscape and Urban Planning*, 162: 126 – 136.
42. Robert J. Reid, David T. Lardier Jr., Pauline Garcia-Reid & **Danlin Yu**. 2016, HIV testing among racial and ethnic minority adolescents living in an urban community. *Journal of HIV/AIDS & Social Services*, DOI: 10.1080/15381501.2016.1244653
43. Muriithi, Faith; **Yu Danlin**. 2015. Understanding the Impact of Intensive Horticulture Land-Use Practices on Surface Water Quality in Central Kenya. *Environments*, 2, 521-545, doi: 10.3390/environments2040521
44. Lu, Shasha; Guan, Xingliang; **Yu, Danlin**; Deng, Yu; Zhou Linjie. 2015. Multi-Scale Analysis of Regional Inequality based on Spatial Field Model: A Case Study of China from 2000 to 2012. *ISPRS International Journal of Geo-Information*, 4, 1982-2003; doi:10.3390/ijgi4041982
45. Muriithi, Faith; **Yu Danlin (corresponding author)**; Stefan, Robila. 2015. Vegetation response to intensive commercial horticulture and environmental changes within watersheds in Central highlands, Kenya, using AVHRR NDVI data. *GIScience and Remote Sensing* DOI: 10.1080/15481603.2015.1085736
46. **Yu, Danlin**; Buchanan, S.W., 2015, Chapter 22: GIS in Environmental Management. In Sarkar, D., Mukherjee, A., Vedwan, N., Datta, R. and Hannigan, R (eds), *An integrated Approach to Environmental Management*. Wiley, 2015 (In Press)
47. Liu, Y Meng, X.Y., Liu, Z.H. and **Yu Danlin**. 2015. Study on the Accumulated Temperature Distribution Model of Snowmelt Flood Magnitude from the Perspective of Ecological Environmental Protection of Mountain Areas. *Natural Environment and Pollution Technology*. 14(3): 517 – 524.
48. Ferdinand, V.A., **Yu, Danlin***, 2015. Sustainable Urban Redevelopment: Assessing the Impact of Third-Party Rating Systems, *Journal of Urban Planning and Development*, DOI: 10.1061/(ASCE)UP.1943-5444.0000271 (In Press)
49. Tashpolat N., J.L. Ding, **Yu, Danlin**. 2015. Analysis of saline soil dielectric characteristics based on correction of Dobson dielectric model and its response to the radar imagery. *Journal of Arid Land*. 7(5): 696–705, DOI: 10.1007/s40333-015-0130-0
50. Jianli Ding, **Yu, Danlin***, 2015. Studies of spatiotemporal changes of land use/land cover and landscape patterns in a typical Turkmeni-stan oasis, *Journal of Arid Land* (In Press).

51. Meng, X.Y., **Yu, Danlin***, Liu, Zhihui. 2015. Comparing mountain snowmelt and runoff simulations using temperature-index method and energy balance-based method within SWAT in Juntanghu watershed, Xinjiang, China. *Journal of Mountain Science*, 12(2): 368 – 381, DOI: 10.1007/s11629-014-3081-6
52. Reid, R.J., **Yu, Danlin**, Garcia-Reid, P. 2014. Preventing Substance Abuse and HIV/AIDS among Urban Minority Youth: Evidence from a University-Community Partnership. *Journal of Addiction Research & Therapy*, 5(3) 1 – 5.
53. Cai, R.H., **Yu, Danlin***, Oppenheimer, M. 2014. Estimating the Spatially Varying Responses of Corn Yields to Weather Variations using Geographically Weighted Panel Regression. *Journal of Agricultural and Resource Economics*, 39(2):230–252.
54. **Yu, Danlin**, Morton, Cory and Peterson, Andrew N., 2014, Community pharmacies and addictive products: sociodemographic predictors of accessibility from a mixed GWR perspective. *GIScience & Remote Sensing*. 51(1): 99 – 113.
55. Justus Faith, and **Yu, Danlin**, 2014, Spatial distribution of greenhouse commercial horticulture in Kenya and the role of demographic, infrastructure and topo-edaphic factors. *ISPRS International Journal of Geo-Information*. 3: 274 – 296 DOI: 10.3390/ijgi3010274
56. Ding, J.L., **Yu, Danlin**, 2014. Monitoring and Evaluating spatial variability of soil salinity in dry and wet seasons in the Werigan-Kuqa Oasis, China, using remote sensing and electromagnetic induction instruments. *Geoderma*, 316 – 322
57. **Yu, Danlin**, 2014. Understanding regional development mechanisms in Greater Beijing Area, China, 1995 – 2001, from a spatial-temporal perspective. *GeoJournal*. 79: 195 – 207, DOI: 10.1007/s10708-013-9500-3
58. **Yu, Danlin**, Fang, C.L., Xue, D. and Yin, J.Y., 2014. Assessing Urban Public Safety via Indicator-Based Evaluating Method: A Systemic View of Shanghai. *Social Indicators Research*. 117: 89 – 104. DOI 10.1007/s11205-013-0366-z
59. Shan, X.-J., Yin, J.-Y., **Yu, D.-L.**, Li, C.-F., Zhao, J.-J., Zhang, G.-F., 2013. Analysis of artificial corner reflector's radar cross section: A physical optics perspective. *Arabian Journal of Geosciences*, 6 (8), pp. 2755-2765.
60. Reid, J.R., C.M. Morton, P. Garcia-Reid, N.A. Peterson, **D.L. Yu**. 2013. Examining Tobacco Outlet Concentration in New Jersey: Does Income and Ethnicity Matter? *Journal of Ethnicity in Substance Abuse* 12: 197 – 209.
61. Feng H., **Yu Danlin**, Deng Y., Weinstein M. P., Martin G. 2012. System dynamic model approach for urban watershed sustainability. *OIDA International Journal of Sustainable Development* 05/06:69-79.

62. **Yu, Danlin**; Yin, Jingyuan; Ye, Feiyue. 2012. Geographic Information Analysis – Past and Trends. *IET International Conference on Smart and Sustainable City (ICSSC 2011)*, DOI: 10.1049/cp.2011.0289, pp. 1 – 6.
63. **Yu, Danlin**; Yin, Jingyuan; Ye, Feiyue. 2012. Novel methods to demarcate urban house submarket – cluster analysis with spatially varying relationships between house value and attributes. *IET International Conference on Smart and Sustainable City (ICSSC 2011)*, DOI: 10.1049/cp.2011.0288, pp. 1 – 6.
64. Xue, Dan; Liu, Wei, **Yu, Danlin***; Yin, Jingyuan; Ye, Feiyue. 2012. An Indicator System for Measuring Shanghai's Urban Safety and Security. *IET International Conference on Smart and Sustainable City (ICSSC 2011)*, DOI: 10.1049/cp.2011.0299, pp. 1 – 6.
65. **Yu, Danlin**, Yin, Jingyuan. 2011. Internet GIS and System Dynamic Modeling in Urban Public Safety and Security Studies: A Conceptual Framework. Springer Series of Computer Science Lecture Notes, ICWL 2010 Workshops, LNCS 6537, pp. 207–216.
66. N. Andrew Peterson, **Yu, Danlin**, Morton CM, Schnieder JE, Reid RJ and Sheffer MA. 2011. Tobacco Outlet Density and Demographics at the Tract-level of Analysis in New Jersey: A Statewide Analysis. *Drugs: Education, Prevention & Policy*, 18, 47-52.
67. Wei, Y.H.D., **Yu, Danlin** and X.J. Chen. 2011. Scale, Agglomeration, and Regional Inequality in Provincial China. *Tijdschrift voor Economische en Sociale Geografie (Journal of Economic and Social Geography)*. DOI: 10.1111/j.1467-9663.2010.00621.x. 102(4), pp. 406 – 425.
68. **Yu, Danlin**, N.A. Peterson, M.A. Sheffer, R.J. Reid, J.E. Schnieder. 2010. Tobacco outlet density and demographics: Analysing the relationships with a spatial regression approach, *Public Health*, 124(7): 412-416
69. **Yu, Danlin**. 2010. Exploring Spatiotemporally Varying Regressed Relationships: the Geographically Weighted Panel Regression Analysis. *Proceedings of the Joint International Conference on Theory, Data Handling and Modelling in GeoSpatial Information Science*, 134 – 139.
70. Kolikkathara, Naushad; Feng, Huan and **Yu, Danlin**. 2010. A system dynamic modeling approach for evaluating municipal solid waste generation, landfill capacity and related cost management issues, *Journal of Waste Management*, 30(11): 2194-2203
71. Kruge, M.A., Permanyer, A., Serra, J., and **Yu, Danlin**, 2010, Geochemical investigation of an offshore sewage sludge deposit, Barcelona, Catalonia, Spain, *Journal of Analytical and Applied Pyrolysis*, 89 (2): 204 – 217.
72. **Yu, Danlin**, N. Andrew Peterson, Robert J. Reid, 2009, Exploring the Impact of Non-normality on Spatial Non-stationarity in Geographically Weighted Regression Analyses: Tobacco Outlet Density in New Jersey. *GIScience & Remote Sensing*. 46: 329-346

73. **Yu, Danlin**, 2009, Spatial interpolation via GWR, a plausible alternative? *2009 17th International Conference on Geoinformatics*, DOI: 10.1109/GEOINFORMATICS.2009.5293526, pp. 1 – 5.
74. Luo Jun, **Yu, Danlin**, Miao Xin. 2008, Modeling Urban Growth using GIS and Remote Sensing. *GIScience and Remote Sensing*. 45(4): 426-442
75. **Yu, Danlin**, Wei Yehua, Dennis. 2008, GIS and Spatial Data Analysis of Regional Development in Greater Beijing, China. *Papers in Regional Science*. 87: 97-117.
76. Feng, H., **Yu, Danlin**, and Zhang, W., 2008. Coastal Sustainability Study and Environmental Management. In *Urbanization: 21st Century Issues and Challenges*. (ed. Luca N. Wagner). Hauppauge, NY: Nova Science Publishers, Inc. pp 155-173
77. Feng, H., Zhang, W., Zhang, L., Wang, X.-C., Yu, L. and **Yu, Danlin**, 2008, Chapter 9. Heavy metal contamination in selected urban coastal regions in US and China. In: *Causes and Effects of Heavy Metal Pollution*. (ed. Mikel L. Sanchez). Hauppauge, NY: Nova Science Publishers, Inc. pp. 265-286
78. **Yu, Danlin**; Wei, Yehua; Wu, Changshan, 2007, Modeling Spatial Dimensions of Housing Prices in Milwaukee, WI. *Environmental and Planning B*. 34: 1085-1102.
79. **Yu, Danlin**; 2007, Modeling owner-occupied single-family house values in the city of Milwaukee: A geographically weighted regression approach, *GIScience and Remote Sensing*. 44: 267-282.
80. **Yu, Danlin**, 2006: Spatially Varying Development Mechanisms in the Greater Beijing Area: A Geographically Weighted Regression Investigation. *Annals of Regional Science*. 40: 173-190.
81. **Yu, Danlin**; Wu, Changshan, 2006: Incorporating Remote Sensing Information in Modeling House Values: A Regression Tree Approach. *Photogrammetric Engineering & Remote Sensing*. 129-138.
82. Wei, Yehua, Dennis; **Yu, Danlin***, 2006: State Policy and the Globalization of Beijing: Emerging Themes. *Habitat International*. 377-395.
83. **Yu, Danlin**; Wu, Changshan, 2004: Understanding population segregation from Landsat ETM+ imagery: a geographically weighted regression approach. *GIScience and Remote Sensing*, **41** (3): 187-206.
84. **Yu, Danlin**; Wei, Yehua, Dennis, 2003: Analyzing regional inequality in post- Mao China in a GIS environment. *Eurasian Geography and Economics*. **44** (7): 514-534, 16 citations.

85. Peng, Zhong-Ren; **Yu, Danlin**; Edward A. Beimborn, 2002: Transit user's perceptions of automatic vehicle location benefits. *Journal of the Transportation Research Board: Transportation Research Record*, No. 1791:127-132.
86. **Yu, Danlin**; Mao, Hanying, 2002: Regional carrying capacity: case studies on Bohai Rim area. *Journal of Geographical Science*, **12** (2):177-185.
87. **Yu, Danlin**; Mao, Hanying; Fang Chuanglin, 1999: Study on optimization of the population system and its coordination with the natural resources and environment inside the Qaidam Basin. *The Journal of Chinese Geography*. **19** (3): 248-256.
88. Mao, Hanying; Fang, Chuanglin; **Yu Danlin**, 1999: Basic thoughts and practice of China's regional development planning in the new period. *The Journal of Chinese Geography*, **19** (2): 135–140.

Book (Peer-reviewed, in English)

1. **Yu, Danlin**; Knoble, Charles, 2026, *Integrative Sensing Strategies for Disaster Management: Harnessing Airborne and Social Sensing Data for Enhanced Resilience*, Elsevier.
2. **Yu, Danlin**, 2024, *Spatial Data Analysis with R: from spatial autocorrelation to spatial regression models, a practical guidance*, Sage's Advanced Quantitative Techniques in the Social Sciences Series, SAGE Publications Inc.
3. Fang, C.L.; **Yu, Danlin**, 2020, *China's Urban Agglomerations*, Science Press of China & Springer, Beijing & Berlin.
4. Fang, C.L.; **Yu, Danlin**; Mao, Hanying; Huang Jinchuan; Bao Chao, 2018, *China's Urban Patterns*. Springer (jointly published with Science Press Beijing), Berlin, Germany
5. Fang, C.L.; **Yu, Danlin**, 2016, *China's New Urbanization in the 21st Century – Developmental Paths, Blueprints and Patterns*, Science Press of China & Springer, Beijing & Berlin.

Software packages authored and contributed.

1. Authored (co-author with Professor Roger Bivand): Statistical package for geographically weighted regression analysis, **SPGWR**, see http://sourceforge.net/project/showfiles.php?group_id=84357&package_id=120595 for the alpha version.
2. Contributed: Spatial dependence: weighting schemes, statistics and models, **SPDEP**, see <http://cran.us.r-project.org/src/contrib/Descriptions/spdep.html> for detail.

Selected Peer-reviewed articles (in Chinese)

1. Xueting Zhang, Binbin Lu, **Danlin Yu**, Jianghua Zheng. 2023. Analysis of spatiotemporal characteristics and driving factors of urban land expansion in Yangtze River Delta urban agglomeration. *Hubei Agricultural Sciences*. 26(3): 116 – 124, doi: 10.14088/j.cnki.issn0439-8114.2023.03.019
2. Nigela Tuerxun, Sulei Naibi, Jian Gao, Jianglong Shen, Jianghua Zheng, **Danlin Yu**. 2021, Chlorophyll content estimation of Jujube leaves based on GWLS-SVR model. *Spectroscopy and Spectral Analysis*. 41(4): 1 – 7.
3. Susu Duan, Jianghua Zheng, **Danlin Yu**, Linzhi Han. 2020. Study on the characteristics of the typical Oasis city expansion of the “Belt and Road” – Taking Urumqi as an example. *Science of Surveying and Mapping*. 45(8): 188 – 198, DOI: 10.16251/j.cnki.1009-2307.2020.08.028.
4. Huilin Wang, **Danlin Yu**, Jianghua Zheng. 2018. Spatial and Temporal Variation Analyses of the Urban Density Based on Spatial Econometrics Model in Xinjiang. *Journal of Natural Science of Hunan Normal University*. 41(5): 1 – 9, DOI: 10.7612/j.issn.2096-5281.2018.05.001
5. Yahui Mao, **Danlin Yu**, Jianghua Zheng, Linlin Chang, 2017. Assessment on Vulnerability in North western Territories of China. *Research of Soil and Water Conservation*. 24(6): 392 – 396.
6. Yahui Mao, **Danlin Yu**, Jianghua Zheng, 2017. Restructuring of urban population in Urumqi City in the past 10 years. *Journal of Northwest Normal University (Natural Science)*. 53(2): 118 – 122 (134), DOI: 10.16783/j.cnki.nwnuz.2017.02.021
7. Weiwei Xu, Jianghua Zheng, **Danlin Yu**. 2015. Review on Study of Personnel Evacuation in Subway Station Fires. *Industrial Safety and Environmental Protection*, 41(1): 65 – 69.
8. **Yu, Danlin**, Lv, Bingyang. 2009. Measurement of Provincial Total Factor Production: Application of Geographically Weighted Regression from a Spatial Temporal Perspective. *Journal of Chinese Soft Science*, **16** (11): 160-170.
9. Lv, Bingyang, **Yu, Danlin**. 2009. Improvement of China’s Regional Economic Efficiency under the Gradient Development Strategy: A Spatial Econometric Perspective. *Social Science in China*, **20** (6): 60-72.
10. **Yu, Danlin**; Wei, Yehua, Dennis, 2003: Globalization, global cities and global city-regions. *Urban Planning Overseas*. **71**: 47-50.

11. **Yu, Danlin**; Mao, Hanying; Gao, Qun, 2003: Study on regional carrying capacity: theory, methods and example – taking Bohai-Rim Area as example. *Geographic Research* **22** (2): 201-210.
12. Mao, Hanying; **Yu, Danlin**, 2001: Studies on methodological issues of regional carrying capacity. *Progress in Earth Science* **16** (4): 549-556.
13. Mao, Hanying; **Yu, Danlin**, 2001: Regional carrying capacity in Bohai Rim. *Acta Geographica Sinica*. **56** (3): 363-372.
14. Fang, Chuanglin, **Yu, Danlin**, 2000: Rationale of the Qaidam Basin's resource exploitation and economic sustainable development". *Journal of Resource Sciences*. **22** (1): 55-60.
15. **Yu, Danlin**; Mao, Hanying, 1999: Economic development in China's coastal regions. *Economic Geography*, **19** (4): 25-30.
16. **Yu, Danlin**, 1999: Rationale of water resources usage in Tangshan in the new century, *Resources and Industries*. **1** (10).
17. Fang, Chuanglin, **Yu, Danlin**, 1999: Experimentation and optimization control of regional sustainable development SD models: Case study of the Qaidam Basin. *Acta Ecologica Sinica*, **19** (6): 767-774.

Grants and Awards (peer-reviewed).

Awarded

State and Federal funding (Active project)

1. 2025 – 2027, co-PI Lowering Lead Bioavailability in Residential Soils of Variable Physico-Chemical Properties using Sustainable In-Situ Treatment Methods. Phase-II: Validating under Scaled-up Field Conditions. The US Department of Housing and Urban Development. With Drs. Dibs Sarkar (PI), Rupali Datta (co-PI), and Zhiming Zhang (co-PI). \$799,999,
2. 2022 – 2025, PI, A system dynamics simulative model to access bioaccessibility of lead in the environment, Jersey City, New Jersey. The US Department of Housing and Urban Development. \$699,981
3. 2023 – 2025, co-PI, Quantifying the role of vegetation cover on berm-dune geometry and sedimentation patterns in Long Branch, New Jersey. New Jersey Sea Grant Consortium (NJSGC), NA22OAR4170095 /6238-0010, with Drs. Jorge Lorenzo-Trueba (PI) and Aparna Varde (co-PI). \$139,999

Finished projects

1. 2019 – 2020 PI, Developing a Wetland Baseline at the Watershed Scale – A system dynamic simulation of wetland biophysical conditions and secondary fish products. EPA/NJDEP, \$51,189.
2. 2015 – 2020, Co-PI (Dr. Robert Reid as the PI), Minority AIDS Initiative (MAI) Capacity Building Initiative for Substance Abuse (SA) and HIV Prevention Services for At-Risk Racial/Ethnic Minority Youth and Young Adults. U.S. Department of Health and Human Services (HHS), Substance Abuse and Mental Health Services Administration (SAMHSA), Center for Substance Abuse Prevention (CSAP), \$1,400,000.
3. 2015 – 2019, PI, Studies of urban vulnerability based on micro-geographic units via spatial data analysis and GeoComputation. Chinese National Science Foundation, RMB 520,000 (award number: 41461035)
4. 2013 – 2018, PI, Urban public safety analysis: quantification and dynamic simulation from a GIS and spatial data analysis perspective. Xinjiang Uyghur Autonomous Region, Department of Education, “Tianshan Scholar”, RMB 350,000
5. 2013 – 2018, Co-PI (Dr. Robert Reid as the PI), Drug Free Communities Grant Program—Paterson Coalition Against Substance Abuse (P-CASA), White House Office of National Drug Control Policy (ONDCP) and Substance Abuse and Mental Health Services Administration (SAMHSA), \$625,000.
6. 2011 – 2012: Co-PI, A System Dynamic Study of Interaction Among Urbanization, Industrialization and Watershed Sustainable Development. PSE&G Institute of Sustainability Science, With Drs. Huan Feng, Yang Deng and George Martin, \$78,790
7. 2008 – 2009: Co-PI, System dynamic model development for Passaic River watershed sustainability and environmental management study. New Jersey Sea Grant college program development, with Dr. Huan Feng. \$5,000
8. 2006 – 2009: Co-PI, Assessing invasive plant species in floodplain wetlands of the upper Passaic River and initiating a geospatial database of invasive plants in New Jersey. EPA Region II with Drs. Paul Bologna, Kirk Barrett, \$46,668

Montclair State University grants (peer-reviewed)

9. Summer 2011: PI, Urban vulnerability analysis based on micro-geographic environment: study of Shanghai. Global Education International Collaborative Projects or Project Development Grant, \$2,500
10. Summer 2011: PI, The analysis of panel data with geographically weighted techniques – development of geographically weighted panel regression method. Summer Grant Proposal Development Grant, \$3,000

11. Spring 2010: PI, GIS and Spatial System Dynamic Modeling in Urban Public Safety and Security of Shanghai, China. Global Education Travel Grant, \$1,500
12. Summer 2009: PI, A Study on Developing a Novel Geospatial Technique, the Homogenized Geographically and Temporally Weighted Regression, and Application to China's Regional Development. Summer Grant Proposal Development Award Project 2009, \$3,000
13. 2009-2010: Co-PI, System dynamic Model Development for Phosphorus Concentration and Loads in Passaic River Watershed Due to Impact of Urbanization and Land Use Change. Passaic River Institute Seed Grant, \$4,922, with Drs. Huan Feng and Joshua Galster
14. Summer 2008: PI, Modeling spatial-temporal dynamics of regional system using sequential polynomial. Summer Grant Proposal Development Award Project with Dr. Aihua Li. \$6,000
15. Summer 2007, 2008: PI, Montclair State University Campus Mapping Project: Integration of Survey, AutoCAD, Remote Sensing and GIS Data. The Division of University Facilities, \$20,755.63

Submitted

1. Leading PI, Mitigating harmful algal bloom impacts on social, economic, and cultural activities in New Jersey with a covariation-mining based system dynamics simulation model. Submitted to NOAA, the US Department of Commerce, Social, Cultural and Economic Assessment of Harmful Algal Blooms. Asking for \$1,091,972
2. PI, Community-driven environmental sustainability and disaster resilience: development of an AI-guided covariation-mining based system dynamics approach. Prepare to be submitted to NSF's Responsible Design, Development, and Deployment of Technologies (ReDDDoT) program, Phase II (Deadline: April 22nd, 2024)

In preparation

1. PI, Investigating the inherent spatial and spatiotemporal interactions of geographical big data: development of geographically weighted panel regression methods. In preparation to submit to The Methodology, Measurement, and Statistics (MMS) Program of NSF for funding consideration (Deadline: August 29th, 2024)

Conference Presentations

1. **Danlin Yu**, 2024, Covariation-Mining in Complex Systems: Synthetic Study of Theoretical System Dynamics, Phase II. Hazard and Risk: Slow-onset hazards: issue, challenges, and risk reduction strategies, August 24 – 31, 2024, The 35th International Geographical Congress, Dublin, Ireland
2. **Danlin Yu**, 2024, Covariation-Mining in Complex Systems: Synthetic Study of Theoretical System Dynamics, Symposium on Human Dynamics Research: Mining

Human Dynamics with Big Data & Spatiotemporal Analysis II, April 17, 2024, 2024 AAG Annual Meeting, Hawai'i

3. Charles C Knoble, Gift Fabolude, **Danlin Yu**, 2024, Don't Let Lead Lead on Environmental Justice: A System Dynamics Simulative Approach to Injustice Detection and Lead Remediation in the Era of Big Data. GeoAI and Deep Learning Symposium - Responsible GeoAI II: Justice and Accuracy, April 18, 2024, 2024 AAG Annual Meeting, Hawai'i
4. Gift Fabolude, Charles C Knoble, **Danlin Yu**, 2024, Understanding the Evolution of System Dynamics Models through the Lens of Big Data: A Review of Innovations and Future Trends. AAG 2024 Symposium on Geospatial Data Science for Sustainability: Embedding Ethics in Geospatial Data Science and AI, April 18, 2024, 2024 AAG Annual Meeting, Hawai'i
5. **Yu, Danlin**. 2023, Covariation mining – critical step in regional system analysis for simulative modeling studies. 70th Annual North American Meetings of the Regional Science Association International, San Diego, CA, 11/14 – 11/18/2023.
6. **Yu, Danlin**. 2023, A system dynamics simulative modeling framework to assess bioaccessibility of lead and facilitate lead reduction in the urban environment. European Geoscience Union Annual Assembly, Vienna, Austria, 04/23/2023 – 04/28/2023.
7. **Yu, Danlin**. 2023, A Spatiotemporal Model Based Governance Performance Evaluation in the US During the Pandemic: Nonpharmaceutical Interventions or Else? Annual Meeting of Association of American Geographers, Denver, CO, 03/23/2023 – 03/27/2023
8. Knoble, Charles; **Yu, Danlin**. 2023, A Big Data Exploration of Injustice: Twitter Data and Environmental Justice in New Jersey. Annual Meeting of Association of American Geographers, Denver, CO, 03/23/2023 – 03/27/2023
9. **Yu, Danlin**. 2022, Seeing the forest and the trees: holistic view of social distancing on the spread of COVID-19 in China. Annual Meeting of Association of American Geographers, New York, NY, 02/25/2022 – 03/01/2022.
10. **Yu, Danlin**. 2022, GIS: Understand Geographic Information and GeoData Analysis. AAG's 35th Annual Geography Awareness Week, Nov. 16, 2022, GIS day, Montclair State University.
11. **Yu, Danlin**. 2021, Spatial regression models: opportunities for social work research. Pre-conference hands-on workshop for the 25th Annual SSWR Conference (Virtual), 01/19/2021 – 01/22/2021
12. **Yu, Danlin**. 2021, An Exploratory Investigation of the Impacts of the Mitigation Strategies in the First Five Weeks of the Pandemic. Symposia: Social Distancing Interventions in the COVID-19 Pandemic in the United States: An Exploratory

Investigation of the Determinants and Impacts of Alternative Mitigation Strategies, 25th Annual SSWR Conference (Virtual), 01/19/2021 – 01/22/2021

13. **Yu, Danlin.** 2019, Development of China's High-speed Rail on County Development. August 29, 2019, Invited lecture to the School of Sociology and Population Studies, Renmin University of China.
14. **Yu, Danlin;** Zhang Yaojun. 2019, An eigenfunction based spatial filtering analysis of how socioeconomic and natural condition factors impact on different groups of people's migration patterns in China. Annual Meeting of Association of American Geographers, April 2 – 7, Washington D.C., 2019
15. **Yu, Danlin.** 2018, Why people move? Why cities attract? A global and local perspective of China's population migration. Oct. 20, 2018, Invited lecture to the School of Sociology and Population Studies, Renmin University of China
16. **Yu, Danlin.** 2018, Environment and population segregation: an empirical study from the spatial sociological perspective. July 18, 2018, Invited lecture to the School of Sociology and Population Studies, Renmin University of China
17. **Yu, Danlin;** Zhang Yaojun. 2018, Spatial Sociometrics: spatial thoughts in social analysis. Annual Meeting of Association of American Geographers, April 9 – 14, New Orleans, 2018
18. **Yu, Danlin;** Fang Chuanglin. 2017, Urban agglomeration: an evolving concept in of an emerging phenomenon. Annual Meeting of Association of American Geographers April 9 – 14, Boston, 2017
19. **Yu, Danlin.** 2017, Spatial Sociometrics: Concepts, Framework and Methodology. July 13, 2017, Invited lecture to the School of Sociology and Population Studies, Renmin University of China.
20. **Yu, Danlin;** Fang Chuanglin. 2016, Understanding the dynamics of Shanghai's urban public safety. 33rd International Geographical Congress Meeting, Beijing, China, August 21 – 25, 2016
21. **Yu, Danlin.** 2016, Study of Urban Public Safety via Microgeographic units - a case of Urumqi, Xinjiang, China. Annual Meeting of Association of American Geographers March 29 – April 2, 2016, San Francisco, CA.
22. **Yu, Danlin;** Reid, J. Robert. 2015, Spatial analysis of crime, alcohol selling outlets, and abandoned properties in Paterson, NJ. Annual Meeting of Association of American Geographers April 20 – 24, 2015, Chicago, IL

23. **Yu, Danlin**, 2014, Assaultive crime, alcohol and sociodemographic factors - a spatial analysis, Annual Meeting of Association of American Geographers, April 8 – 12, 2014, Tampa, FL
24. **Yu, Danlin**. 2013, Community pharmacies and addictive products: sociodemographic predictors of accessibility from a mixed GWR perspective, Annual Meeting of Association of American Geographers, April 4 – 13, 2013, Los Angeles, CA
25. Bruna, F., **Yu, Danlin**. 2013, Geographically weighted panel regression (GWPR), 6th Seminar Jean Paelinck, Madrid, 18-19th October, 2013, Universidad Autónoma de Madrid, Spain
26. **Yu, Danlin**. 2012, Simulating and predicting the dynamics of Shanghai's public safety - a system dynamics perspective, Annual Meeting of Association of American Geographers, Feb. 24 – 28, 2012, New York, NY
27. Cai, R.H., **Yu, Danlin**, Oppenheimer, M., 2012, Estimating the Effects of Weather Variations on Corn Yields using Geographically Weighted Panel Regression, Annual Meeting of Agricultural and Applied Economics Association, August 12-14, 2012, Seattle, Washington
28. **Yu, Danlin**, Yin, Jingyuan; Ye, Feiyue. 2011, Geographic Information Analysis – Past and Trends, 2011 IET International Conference on Smart and Sustainable City, July 6-8, 2011, Shanghai, China
29. **Yu, Danlin**; Yin, Jingyuan; Ye, Feiyue. 2011 Novel methods to demarcate urban house submarket – cluster analysis with spatially varying relationships between house value and attributes, 2011 IET International Conference on Smart and Sustainable City, July 6-8, 2011, Shanghai, China
30. Xue, Dan; Liu, Wei, **Yu, Danlin**; Yin, Jingyuan; Ye, Feiyue. An Indicator System for Measuring Shanghai's Urban Safety and Security, 2011 IET International Conference on Smart and Sustainable City, July 6-8, 2011, Shanghai, China
31. **Yu, Danlin**, 2011, Exploring spatiotemporally varying regressed relationships: the geographically weighted panel regression analysis, *2011 Annual Conference of the Association of American Geographers*, Apr. 12 – 16, Seattle, WA.
32. **Yu, Danlin**, 2010, Internet GIS and System Dynamic Modeling in Urban Public Safety and Security Studies: A Conceptual Framework, *International Conference on Web-Based Learning (ICWL) 2010 and Workshops (STEG'10 / CICW'10 / WGLBWS'10 / IWKDEWL'10)*, Dec. 8 – 10, Shanghai, China.
33. **Yu, Danlin**, 2010, Explore a hybrid spatial interpolation method: geographically weighted regression - Kriging method, *2010 Annual Conference of the Association of American Geographers*, Apr. 14 – 18, Washington D.C.

34. **Yu, Danlin**, 2009, Spatial interpolation via GWR, a plausible alternative? *GeoInformatics 2009*, Aug. 12 – 14, Washington D.C.
35. **Yu, Danlin**, 2009, GWR with time: an Investigation of Spatiotemporal Interaction in Studying China's Regional Development. *2009 Annual Conference of the Association of American Geographers*, Mar. 22 – 27, Las Vegas, Nevada
36. **Yu, Danlin**, Wei, Yehua, and Chen, Xiaojing, 2009, Regional development in provincial China: spatial and spatiotemporal analysis (*Invited*). *International Conference on Globalization, Innovation, and Urban-Regional Development*, Jun. 18 – 20, Shanghai, China
37. Lv, Bingyang, **Yu, Danlin**, 2008, Improvement of China's Regional Economic Efficiency under the Gradient Development Strategy: A Spatial Econometric Perspective. *2008 55th North American Regional Science Association International (RSAI) Annual Conference*, Nov. 19 – 22, Brooklyn, New York
38. **Yu, Danlin**, Lv, Bingyang, 2008, Measurement of Provincial Total Factor Productivity and Its Contribution to Economic Growth: Application of Geographically Weighted Regression from a Spatial Temporal Perspective. *2008 55th North American Regional Science Association International (RSAI) Annual Conference*, Nov. 19 – 22, Brooklyn, New York
39. **Yu, Danlin**, 2008, Understanding regional development mechanisms in Greater Beijing Area, China, 1995 – 2001, from a spatial-temporal perspective. *GeoInformatics 2008 and Joint Conference on GIS & Built Environment*, June 28-29, Guangzhou, Guangdong, China.
40. **Yu, Danlin**, Peterson A., and Reid R. 2008, Exploring the spatially varying relationships between tobacco outlet density and demographic factors. *2008 Annual Conference of the Association of American Geographers*, April 15 – 19, 2008, Boston, MA.
41. Kruge M., Olsen K., Stern E. and **Yu Danlin** 2007, Organic geochemical investigation of a highly contaminated urban waterway: the Gowanus Canal, Brooklyn, New York, USA. *The 23rd International Meeting on Organic Geochemistry*. Sept. 9 –14, 2007, Torquay, Devon, United Kingdom
42. **Yu, Danlin**, Peterson A., and Reid R. 2007, Tobacco outlet density in New Jersey: Exploring the impact of non-normality on spatial non-stationarity in GWR analyses. *2007 54th North American Regional Science Association International (RSAI) Annual Conference*, Nov. 7 – 10, Savanna, Georgia
43. Luo, Jun and **Yu, Danlin**. 2007, Modeling urban growth with Geographically Weighted Multinomial Logistic Regression. *2007 54th North American Regional Science Association International (RSAI) Annual Conference*, Nov. 7 – 10, Savanna, Georgia

44. **Yu, Danlin.** 2007, Spatial interpolation, GWR, would more information make a big difference? *2007 Annual Conference of the Association of American Geographers*, April 17 – 21, 2007, San Francisco, California.
45. **Yu, Danlin.** 2006, A geographically weighted regression – based urban housing submarket identification study. *2006 Annual Conference of the Association of American Geographers*, March 7 – 11, 2006, Chicago, Illinois.
46. **Yu, Danlin,** Wei, Yehua, Dennis, Wu, Changshan. 2005. Modeling Spatial Dimensions of Housing Prices in Milwaukee: GIS Based Approaches. *2005 52nd North American Regional Science Association International (RSAI) Annual Conference*, Nov. 9 – 12, Las Vegas, Nevada
47. **Yu, Danlin.** 2005. GIS and ESDA in Regional Development: Case Study of Greater Beijing. *2005 Annual Conference of the Association of American Geographers*, April 5 – 9, 2005, Denver, Colorado.
48. **Yu, Danlin.** 2004. Spatially varying development mechanisms in the Greater Beijing Area: A GWR investigation. *2004 51st Annual North American Meetings of the Regional Science Association International*, November 11 – 13, 2004, Seattle, Washington.
49. **Yu, Danlin.** 2004. Modeling housing market dynamics in the city of Milwaukee: a geographically weighted regression approach. *GIScience 2004/UCGIS Assembly 2004 Meeting*, October 20 – 24, 2004, College Park, Maryland.
50. **Yu, Danlin.** 2004. GIS and Exploratory Spatial Data Analysis at County-Level: Regional Development in the Greater Beijing Area from 1978-2001. *56th Annual Meeting of the West Lakes Division of the Association of American Geographers and 58th Annual Meeting of the Wisconsin Geographical Society*, October 7 – 9, 2004, Oshkosh, Wisconsin.
51. **Yu, Danlin.** 2004. GIS and Spatial Modeling in Regional Development: Case Study on the Greater Beijing Area. *2004 Centennial Conference of the Association of American Geographers*, March 12- 18, 2004, Philadelphia, Pennsylvania.
52. **Yu, Danlin.** 2003. Regional development in Greater Beijing Area: A GIS and spatial perspective. *2003 Meeting of the East Lakes & West Lakes Divisions of the Association of American Geographers*, October 16-18, 2003, Kalamazoo, Michigan.
53. **Yu, Danlin.** 2003. Studies on quantifying regional carrying capacity: Case studies on Bohai Rim Area. *The Wisconsin Geographical Society 57th Annual Meeting*, September, 19-20, 2003, Eau Claire, Wisconsin.

54. **Yu, Danlin**, Wei, Yehua. 2003. Analyzing regional inequality in post- Mao China in a GIS environment. *Chinese Economy After WTO: Opportunities and Challenges of Globalization*, August 2-3, 2003, Ann Arbor, Michigan.
55. **Yu, Danlin**, Wei, Yehua. 2003. Globalizing Beijing. *Annual Meeting of the Association of American Geographers*. March 5-8, 2003, New Orleans, Louisiana.
56. Peng, Zhong-ren, **Yu, Danlin**. 2002. GIS on the Internet: A state of the art review. *Urban and Regional Information System Association's 40th Annual Conference*. October 26-30, 2002, Chicago, Illinois.
57. **Yu, Danlin**, Wei, Yehua. 2002. Modeling regional inequality in China in a GIS environment. *Annual Meeting of the Association of American Geographers*. March 20-24, 2003, Los Angeles, California.
58. Peng, Zhong-ren, **Yu, Danlin**, Edward A. Beimborn. 2002. Transit user's perceptions of automatic vehicle location benefits. *Transportation Research Board 2002 Annual Meeting*, January 11-15, 2002. Washington, D.C.

Professional Memberships

- 2001 – Present: Association of American Geographers (AAG).
- 2002: Urban and Regional Information Systems Association (URISA).

Professional Service

Editorship

- 2012 – present: Associate Editor of American Society of Civil Engineers' (ASCE) *Journal of Urban Planning and Development*
- 2017 – present: Academic Editor of *PeerJ*
- 2020 – present: Academic Editor of *Remote Sensing*

Editorial Board member

- 2020 – present: member of the Editorial Board of *Remote Sensing*
- 2009 – present: member of the Editorial Board of *Journal of Urban Planning and Development*
- 2008 – present: member of the Editorial Board of *Open Geography Journal*