SHAOQING DAI



WORKING EXPERIENCE

Current 2025.01

Key-Funded Postdoctral Researcher

Geography Postdoctral Program, School of Resource and Environmental Sciences, Wuhan University

Wuhan, China

· Co-mentor: Prof.Peng Jia



View this CV online with links at nickstrayer.me/cv/

EDUCATION

2024.06 2020.01

Ph.D., Geoinformatics

Faculty of Geo-information Science and Earth Observation(ITC), University of Twente

• Enschede, Netherlands

- · Thesis: Improving obesogenic environmental assessments with advanced geospatial methods
- · Supervised by Prof.Peng Jia, Prof.Alfred Stein

2019.06 2016.09

M.Sc., Ecology

Institute of Urban Environment, Chinese Academy of Sciences, University of Chinese Academy of Sciences

Xiamen, China

- · Thesis:Creating a Carbon Source and Sink Map by Coupling an Ecological Process Model with an Emission Inventory to Study a Carbon Balance
- · Supervised by Prof.Yin Ren

2016.06 2012.09

B.S., Geographical Science (National Talents Training Base)

School of Geographical Sciences, Fuajian Normal University

Fuzhou, China

- · Thesis:The Planning Location and Design of Smart Campus Based on BIM and GIS:A Case Study of Fujian Normal University
- · Supervised by Prof. Huixian Jiang

RESEARCH INTERESTS

Current 2012

Health Geography; Urban Visual Intelligence; Spatial Lifecourse Helath; Spatial Statistics; UrbanComputing; Spatial-Temporal Big Data

CONTACT

- shaoqing.dai@outlook.com
- GISerDaiShaoqing
- **@** Homepage

LANGUAGE SKILLS

RS & Earth Observation

Made with the R package pagedown.

The source code is available on GISerDaiShaoqing/Curriculum-Vitae-Latex.

Last updated on 2025-03-01.

☐ DEVELOPED OPEN SOFTWARE Note of Applied Statistics with R Current 2017 · http://gisersqdai.top/Note-of-Applied-Statistics-with-R-Book/ D₃L Tool of NASA Satellite Current 2018 · The program provides a graphical interface to download satellite imagery from NASA, such as MODIS products, MERIS and more information can see url¹ Geographical detector in R Current 2018 · The geographical detector software based on R **GitHub Paper Notebook** Current 2018 · The software for notebook of papers rgeoda Current 2019 · rgeoda is a R package for spatial data analysis based on libgeoda and GeoDa(contributor). COVID-19 Dashboard shiny app Current 2020 · A developed dashboard shiny app about COVID-19, url². Current Awesome COVID-19 2020 · Resources of COVID-19 research. http://covid19.gisersqdai.top/en-us/ MetS score calculator shiny app Current 2023 · A shiny app to calculate MetS score. https://gisersqdai.shinyapps.io/mets _severiity_calculator/ AWARDS & HONORS Special Program for the Introduction of Overseas Postdoctoral Talents 2025

· Ministry of Education of the People's Republic of China

2022	•	Outstanding contributions to COVID-19 epidemic prevention and control
		· Health commission of Tumot Left Banner, Inner Mongolia autonomous region
2021	•	The National 2nd Prize in the 5th Planning Decision Support Model Design Contest(Chengyuan Cup)
		 Beijing Chengyuan Digital Technology Co. Ltd., World Urban Planning Education Network, Beijing Planning Institute Hongdu Planning and Architectural Design Research Institute Co. Ltd., Beijing City Lab, Baidu Map Huiyan, China Unicom Smart Footprint
2019	•	China Scholarship Council(CSC)
		· China Scholarship Council
2019		The 2nd Grade Scholarship of Yonker Environmental Protection Scholarship
		· Yonker Environmental Protection Co. Ltd.
2019		The 1st Grade Scholarship of Institute of Urban Environment, Chinese Academy of Sciences
		· Institute of Urban Environment, Chinese Academy of Sciences
2019		The Scientific and Technological Innovation Award of Outstanding Graduate Students of the Ecological Society of China
		· Ecological Society of China
2018		National Scholarship for M.Sctop 2-3%
		· Ministry of Education of the People's Republic of China
2018		The National 3rd Prize in the 2nd Big Data Support Spatial Planning and Design Competition
		· Urban Big Data Special Committee, Chinese Society for Urban Studies
2018		"Applied Energy" 2018 Summer School Certification
		· The Applied Energy Innovation Institute, Department of Earth System Science, Tsinghua University, China Emission Accounts & Datasets(CEADs)

2018	•	Merit Students in the academic year 2017-2018
		· University of Chinese Academy of Sciences
2018		The 2nd Grade Scholarship of Institute of Urban Environment, Chinese Academy of Sciences
		· Institute of Urban Environment, Chinese Academy of Sciences
2018	•	The 1st Scholarship of Institute of Urban Environment, Chinese Academy of Sciences
		· Institute of Urban Environment, Chinese Academy of Sciences
2018		The National Winning Award in 2017 "Sharing Cup" College Student Science and Technology Resource Sharing Service Innovation Contest
		· National Science & Technology Infrastructure Center
2017	•	"Excellent Volunteer" award of 15th User Conference of Esri China
		· Esri China Information Technology Co. Ltd.
2017	•	Merit Students in the academic year 2016-2017
		· University of Chinese Academy of Sciences
2015		The National Winning Award in 2015 Esri Cup National Collegiate Developed Contest in GIS-3D Modeling and Design
		Chinese Society of Geodesy Photogrammetry and Cartography, Esri China Information Technology Co. Ltd.
2015	•	Inovation Scholoarships in the academic year 2014-2015
		· Fujian Normal University
2015	•	The National 3rd Prize in the Smart City Special Event Contest, the 14th Challenge Cup National College Students' Extracurricular Academic Science and Technology Works Contest
		Chinese Communist Youth League, China Association for Science and Technology, Ministry of Education of the People's Republic of China, All-China Students' Federation

2015	 Scientific and Technological Innovation award and Nomination, the First Annual Fujian Normal University Student Selection
	· Fujian Normal University
2015	 The School Wining Award during the 9th Challenge Cup National College Students' Extracurricular Academic Science and Technology Works Contest
	• Fujian Normal University
2014	Inovation Scholoarships in the academic year 2013-2014
	• Fujian Normal University
2014	The National 3rd Prize in 2014 MathorCup Global Collegiate Mathematical Contest in Modeling
	Chinese Society of Optimization, Overall Planning and Economical Mathematics
2014	*Excellent League Cadres" in the academic year 2013-2014
	· Fujian Normal University
2014	• "Excellent League Cadres" in the academic year 2013-2014
	· School of Geographical Sciences, Fujian Normal University
2013	• "Excellent League Cadres" in the academic year 2012-2013
	· School of Geographical Sciences, Fujian Normal University
	ACADEMIC SERVICE & AFFILIATIONS
Current	UrbanParty
2024	· Lecturer
Current 2024	 International Society for Photogrammetry and Remote Sensing Student Consortium
	· Member

Current 2024	•	AI 4D City lab, Hong Kong University of Science and Technology (Guangzhou)	
		· Visiting Scholars	
Current 	•	International Institute of Spatial Lifecourse Health (ISLE)	
2019		· Fellow	
Current 		GeoDa Center, rgeoda, libgeoda Github Organizations	
2019		· Contributor	
Current 	•	The Organizations "Sustainable Cities & Mobility"	
2015		· Volunteer	
Current 2019		European Heart Journal, Resources, Conservation and Recycling, Sustainable Cities and Society, International Journal of Geographical Information Science, Cities, Information Processing & Management, Methods in Ecology and Evolution, International Journal of Digital Earth, GIScience & Remote Sensing, Frontiers in Public Health, Frontiers in Environmental Science, Frontiers in Earth Science, Scientific Reports, Data in Brief, The Journal of Open Source Software, Shanghai Urban Planning Review	
		· Reviewer	
2024		2th World Congress of Geography, "Research on Global Health Wellbeing and Health Geography" session	
		· Convener	
2024		4th International Symposium on Spatial Lifecourse Health, "Application of System Simulation Models in Health Domain" session	
		· Convener	
2024	•	4th International Symposium on Spatial Lifecourse Health Workshop	
		· Lecturer	
2024	•	Heywhale Community and GISphere, 'Python x GIS' GeoAl Workshop	
		· Lecturer	

2024	•	Training course on 'Spatial Epidemiology Analysis Mehtods and Applications'
		· Lecturer
2023	•	GISphere
2020		· Editor Board, Council Member, Editor in chief of Wechat
2020		Aliyunqi Community
2018		• Expert
2019 	•	International Association of Landscape Ecology of China(IALE-China)
2017		• Member
2017		Green Bike-Transit
2016		· Volunteer
2017 	•	The Geographical Tribune of Youth
2013		· Founder, Editor in Chief, Associate Editor, Assistant Editor in Chief
		PUBLICATIONS-PEER-REVIEWED JOURNAL ARTICLES
2025		Built environments and obesity: A framework considering residences, commute routes, and workplaces Cities
		 Chun Yin, Zhe Zhang, Shaoqing Dai, Yiyi Chen 160: 105842. doi:10.1016/j.cities.2025.105842. SSCI, IF=6.0
2025		oward 3D hedonic price model for vertically developed cities using street view images and machine learning methods Habitat International
		 Yue Ying, Shaoqing Dai*, Mila Koeva, Monika Kuffer, Claudio Persello, Wen Zhou, Jaap Zevenbergen 156: 103288. doi:10.1016/j.habitatint.2025.103288. SSCI, IF=6.5

Heterogeneous impacts of and vulnerabilities to the COVID-19 pandemic

Landscape Ecology

- · Manyao Li#, **Shaoqing Dai#**, Yuanyuan Shi#, Kun Qin#, Ross Brownson, Yan Kestens, Miyang Luo, Shiyong Liu, Jing Su, Gordon G. Liu, Shujuan Yang, Peng Jia
- · 40: 32. doi:10.1007/s10980-024-02039-z
- · SCI. IF=4.0

2024

Long-term exposure to PM2.5 chemical constituents and diabesity: evidence from a multi-center cohort study in China

The Lancet Regional Health-Western Pacific

- · Changwei Cai, Shuzhen Zhu, Mingfang Qin, Xiaoqing Li, Chuanteng Feng, Bin Yu, **Shaoqing Dai**, Ge Qiu, Yuchen Li, Tingting Ye, Wenling Zhong, Ying Shao, Lan Zhang, Peng Jia, Shujuan Yang
- · 16(6): 1028.doi:10.1016/j.lanwpc.2024.101100
- · SCI, IF=7.6

2024

Street view imagery-based built environment auditing tools: a systematic review

International Journal of Geographical Information Science

- · Shaoqing Dai, Yuchen Li, Alfred Stein, Shujuan Yang, Peng Jia.
- · 38(6): 1136-1157. doi:10.1080/13658816.2024.2336034
- · SCI/SSCI, IF=4.3

2024

Spatiotemporal patterns of air pollutants over the epidemic course: a national study in China

Remote Sensing

- · Kun Qin#, Zhanpeng Wang#, **Shaoqing Dai#**, Yuchen Li, Manyao Li, Chen Li, Ge Qiu, Yuanyuan Shi, Chun Yin, Shujuan Yang, Peng Jia*
- · 16(7): 1298. doi:10.3390/rs16071298.
- SCI, IF=4.2

2024

State of the art of lifecourse cohort establishment

China CDC Weekly

- · Shaoqing Dai, Ge Qiu, Yuchen Li, Shuhan Yang, Shujuan Yang, Peng Jia
- · 6(14), 300-304. doi:10.46234/ccdcw2024.058.
- · SCI/SSCI, IF = 4.3

2024

Long-term dynamic monitoring and driving force analysis of ecoenvironmental quality in China

Remote Sensing

- · Weiwei Zhang, Zixi Liu, Kun Qin, **Shaoqing Dai**, Huiyuan Lu, Miao Lu, Jianwan Ji, Zhaohui Yang, Chao Chen, Peng Jia
- · 16(6): 1028 doi:10.3390/rs16061028.
- SCI, IF=4.2

Mixed land use has opposite associations with subjective well-being through social capital: Spatial heterogeneity in residential and workplace neighborhoods

Travel Behaviour and Society

- · Chun Yin, Jiahang Liu, Shaoqing Dai, Bindong Sun
- · 35, 100724. doi:10.1016/j.tbs.2023.100724.
- · SSCI, IF=5.1

2024

Local carbon emission zone construction in the highly urbanized regions: Application of residential and transport ${\rm CO_2}$ emissions in Shanghai, China

Building and Environment

- · Yunfeng Tian, Shudi Zuo, Jiaheng Ju, **Shaoqing Dai**, Yin Ren, Panfeng Dou
- · 247, 111007. doi:10.1016/j.buildenv.2023.111007.
- SCI, IF=7.1

2023

Assessing Spatiotemporal Bikeability Using Multi-Source Geospatial Big Data: A Case Study of Xiamen, China

International Journal of Applied Earth Observation and Geoinformation

- · Shaoqing Dai, Wufan Zhao, Yanwen Wang, Xiao Huang, Zhidong Chen, Jinghan Lei, Alfred Stein, Peng Jia.
- · 125, 103539. doi:10.1016/j.jag.2023.103539.
- · SCI, IF=7.6

2023

Development and validation of an age-sex-ethnicity-specific metabolic syndrome score in the Chinese adults

Nature Communications

- · Shujuan Yang, Bin Yu, Wanqi Yu, **Shaoqing Dai**, Chuanteng Feng, Ying Shao,Xing Zhao, Xiaoqing Li, Tianjing He, Peng Jia.
- · 14(1), 6988. doi:10.1038/s41467-023-42423-y
- · SCI, IF=14.7

2023

Environmental determinants of childhood obesity: a meta-analysis

The Lancet Global Health

- Peng Jia, Yuanyuan Shi, Qi Jiang, Shaoqing Dai, Bin Yu, Shuhan Yang, Ge Qiu, Shujuan Yang.
- · 11, S7. doi:10.1016/S2214-109X(23)00092-X.
- · SCI, IF=20.0

The importance of the functional mixed entropy for the explanation of residential and transport CO₂ emissions in the

urban center of China

♀ journal of Cleaner Production

2022

- · Shudi Zuo, **Shaoqing Dai**, Jiaheng Ju, Fanxin Meng, Yin Ren, Yunfeng Tian, Kaide Wang
- · 380, 134947. doi:10.1016/j.jclepro.2022.134947.
- · SCI, IF=9.7

2022 • Global spreading of Omicron variant of COVID-19

Geospatial Health

- Pengxin Zhang, Shuhan Yang, Shaoqing Dai, Darren How Jin Aik, Shujuan Yang, Peng Jia.
- · Geospatial Health. 17. doi:10.4081/gh.2022.1083.
- · SCI, IF-=1.0

Quantifying urban mass gain and loss by a GIS - based material stocks and flows analysis. Journal of Industrial Ecology

Journal of Industrial Ecology

- · Yupeng Liu, Jiajia Li, Weiqiang Chen, Lulu Song, Shaoqing Dai.
- · 26(3), 1051-1060. doi:10.1111/jiec.13252.
- · SCI, IF=4.9

Identification of two-dimensional copper signatures in human blood for bladder cancer with machine learning

Chemical Science

- · Weichao Wang, Xian Liu, Changwen Zhang, Fei Sheng, Shanjun Song, Penghui Li, **Shaoqing Dai**, Bin Wang, Dawei Lu, Luyao Zhang, Xuezhi Yang, Zhihong Zhang, Sijin Liu, Aiqian Zhang, Qian Liu, Guibin Jiang.
- · 3(6), 1648-1656. doi:10.1039/D1SC06156A.
- · SCI, IF=7.6

Improving plot-level model of forest biomass: A combined approach using machine learning with spatial statistics

Forests

- · Shaoqing Dai, XiaomanZheng, Lei Gao, Chengdong Xu, Shudi Zuo, Qi Chen, Xiaohua Wei, Yin Ren
- · 12(12), 1663. doi:10.3390/f12121663.
- · SCI, IF=2.4

New approaches to anticipate the risk of reverse zoonosis

Trends in Ecology & Evolution

- · Peng Jia, Shaoqing Dai, Tong Wu, Shujuan Yang.
- · 36(7), 580-590. doi:10.1016/j.tree.2021.03.012.
- · SCI. IF=16.7

Refined water security assessment for sustainable water management: A case study of 15 key cities in the Yangtze River Delta, China

Journal of Environmental Management

- · Panfeng Dou, Shudi Zuo, Yin Ren, Manuel J. Rodriguez, Shaoqing Dai.
- · 290, 112588. doi:10.1016/j.jenvman.2021.112588.
- · SCI, IF=8.0

2021

Pitfalls in Modeling Asymptomatic COVID-19 Infection

Frontiers in Public Health

- · Shujuan Yang, Shaoqing Dai, Yulin Huang, Peng Jia.
- · 9, 593176. doi:10.3389/fpubh.2021.593176.
- · SCI. IF=3.0

2021

High spatial resolution mapping of steel resources accumulated above ground in mainland China: Past trends and future prospects

Journal of Cleaner Production

- · Lulu Song, Shaoqing Dai, Zhi Cao, Yupeng Liu, Weiqiang Chen.
- · 297, 144609. doi:10.1016/j.jclepro.2021.126482.
- · SCI, IF=9.7

2020

The direct and interactive impacts of hydrological factors on bacillary dysentery across different geographical regions in central China.

Science of the Total Environment

- · Shudi Zuo, Lianping Yang, Panfeng Dou, Hung Chak Ho, **SQ. Dai**, Wenjun Ma, Yin Ren, Cunrui Huang.
- · 764, 144609. doi:10.1016/j.scitotenv.2020.144609.
- SCI, IF=8.2

2020

Investigating the uncertainties propagation analysis of CO_2 emissions emissions gridded maps at the urban scales: a case study of Jinjiang city, China.

Remote Sensing

- · Shaoqing Dai, Yin Ren, Shudi Zuo, Chengyi Lai, Jiajia Li, Shengyu Xie, Bingchu Chen.
- · 12(23), 3932. doi:10.3390/rs12233932
- · SCI, IF=4.2

2020

The Evaluation of Health Effect of Short-term Exposure to PM2.5 during Spring Festival: A Case Study of 25 Cities in the Yangtze River Delta

Shanghai Urban Planning Review

- · Shaoqing Dai, Jiajia Li, Weixu Yang, Fangyu Chen, Huixian Jiang.
- · 05, 22-29. doi:10.11982/j.supr.20200504.
- · in Chinese

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Natural environment and childhood obesity: A systematic review

Obesity Reviews

- Peng Jia, **Shaoqing Dai**, Kristen. E. Rohli, Robert V. Rohli, Yanan Ma, Chao Yu, Xiongfeng Pan, Weiqi Zhou.
- · 1-9. doi:10.1111/obr.13097
- · SCI, IF=8.0

2020

Response of syntrophic bacterial and methanogenic archaeal communities in paddy soil to soil type and phenological period of rice growth

Journal of Cleaner Production

- · XiaoFang Pan, Hu Li, Lixin Zhao, Xiaoru Yang, Jianqiang Su, **Shaoqing Dai**, Jing Ning, Chunxing Li, Guanjing Cai, GeFu Zhu.
- · 278, 123418. doi:10.1016/j.jclepro.2020.123418
- · SCI, IF=9.7

2020

Green space access in the neighbourhood and childhood obesity

Obesity Reviews

- · Peng Jia, Xinxi Cao, Hongxi Yang, **Shaoqing Dai**, Pan He, Ganlin Huang, Tong Wu, Yaogang Wang.
- · 1-12. doi:10.1111/obr.13100
- · SCI. IF=8.0

2020

Neighbourhood speed limit and childhood obesity

Obesity Reviews

- · Miyang Luo, Hanqi Li, Xiongfeng Pan, Teng Fei, **Shaoqing Dai**, Ge Qiu, Yuxuan Zou, Heleen Vos, Jiayou Luo, Peng Jia.
- · 1-11. doi:10.1111/obr.13052
- · SCI, IF=8.0

2020

Treatment of high-ash industrial sludge for producing improved char with low heavy metal toxicity

Journal of Analytical and Applied Pyrolysis

- · Shengyu Xie, Guangwei Yu, Chunxing Li, Jie Li, Gang Wang, **Shaoqing Dai**, Yin Wang.
- · 150, 104866. doi:10.1016/j.jaap.2020.104866
- SCI, IF=5.8

2020

Access to bike lanes and childhood obesity: A systematic review and meta - analysis

Obesity Reviews

- · Xiongfeng Pan, Li Zhao, Jiayou Luo, Yinhao Li, Lin Zhang, Tong Wu, Melody Smith, **Shaoqing Dai**, Peng Jia.
- · 1-11. doi:10.1111/obr.13042
- SCI, IF=8.0

A spatial database of ${\rm CO_2}$ emissions, urban form fragmentation and city-scale effect related impact factors for the low carbon urban system in Jinjiang city, China

Data in Brief

- · Shaoqing Dai, Shudi Zuo, Yin Ren.
- · 29, 105274. doi:10.1016/j.dib.2020.105274
- · ESCI, IF=1.0

2020

 More fragmentized urban form more CO₂ emissions? An comprehensive relationship from the combination analysis across different scales

Journal of Cleaner Production

- · Shudi Zuo, Shaoqing Dai, Yin Ren.
- · 244, 118659. doi:10.1016/j.jclepro.2019.118659
- · SCI, IF=9.7

2019

The impacts of climate and land use/land cover changes on water yield service in Ningbo region

Acta Scientiae Circumstantiae

- · Panfeng Dou, Shudi Zuo, Yin Ren, Shaoqing Dai, Guoliang Yun
- · 39(7), 2398-2409. doi:10.13671/j.hjkxxb.2019.0122
- · CSCD, in Chinese

2019

A GIS-based high spatial resolution assessment of large-scale PV power generation potential and associated CO₂ emission reduction in China

Applied Energy

- Qing Yang, Tianyue Huang, Saige Wang, Jiashuo Li, Shaoqing Dai, Sebastian Wright, Yuxuan Wang, Huaiwu Peng.
- · 247, 254-269. doi:10.1016/j.apenergy.2019.04.005
- SCI, IF=10.1

2019

PM2.5 spatiotemporal evolution and drivers in the Yangtze River Delta between 2005 and 2015

Atmosphere

- · Guoliang Yun, Yuanrong He, Yuantong Jiang, Panfeng Dou, **Shaoqing** Dai.
- · 10(2), 55. doi:10.3390/atmos10020055
- SCI, IF=2.5

2018

Determining the Mechanisms that Influence the Surface Temperature of Urban Forest Canopies by Combining Remote Sensing Methods, Ground Observations, and Spatial Statistical Models

Remote Sensing

- · Shudi Zuo, **Shaoqing Dai**, Xiaodong Song, Chengdong Xu, Yilan Liao, Weiyin Chang, Qi Chen, Yaying Li, Jianfeng Tang, Wang Man, Yin Ren.
- · 10(11), 1814. doi:10.3390/rs10111814
- · SCI, IF=4.2

Analysis of Heavy Metal Sources in the Soil of Riverbanks Across an Urbanization Gradient

International Journal of Environmental Research and Public Health

- · Shudi Zuo, Shaoqing Dai, Yaying Li, Jianfeng Tang, Yin Ren.
- · 15(10), 2175. doi:10.3390/ijerph15102175
- · SCI, IF=4.6

2018

Influence of walking environment on robbery, snatch and theft crime in urban area, H city, China

Scientia Geographica Sinica

- · Shaoqing Dai, Huixian Jiang, Jiajia Li, Xian Su, Juan Wu, Yin Ren.
- · 38(8), 1235-1244. doi:10.13249/j.cnki.sgs.2018.08.005
- · CSCD, in Chinese

2018

Individual and Interactive Influences of Anthropogenic and Ecological Factors on Forest PM2.5 Concentrations at an Urban Scale

Remote Sensing

- Guoliang Yun, Shudi Zuo, Shaoqing Dai, Xiaodong. Song, Chengdong Xu, Yilan Liao, Peiqiang Zhao, Weiyin Chang, Qi Chen, Yaying Li, Jianfeng Tang, Wang Man, Yin Ren.
- ·10(4), 521. doi:10.3390/rs10040521
- · SCI, IF=4.2

2018

Research on the effects of different policy tools on China's emissions reduction innovation

China Population, Resources and Environment

- · Qin Ye, Gang Zeng, Shaoqing Dai, Fenglong Wang.
- · 28(02), 115-122. doi:10.12062/cpre.20170915
- · CSCD, in Chinese

2017

Research on the effects of command-and-control and market-oriented policy tools on China's energy conservation and emissions reduction innovation

Chinese Journal of Population Resources and Environment

- \cdot Qin Ye, **Shaoqing Dai**, Gang Zeng.
- · 16(1), 1-11. doi:10.1080/10042857.2017.1418273.
- ESCI, IF=3.9

2017

Landscape-Scale Simulation Analysis of Waterlogging and Sponge City Planning for a Central Urban Area in Fuzhou City, China.

International Low Impact Development Conference China 2016: LID Applications in Sponge City Projects.

- · Shaoqing Dai, Jiajia Li, Shudi Zuo, Yin Ren, Huixian Jiang.
- · 251-260. doi:10.1061/9780784481042.028
- · EI

The Analysis of Urban Spatial Development Pattern in Beijing Based on the Big Data of Government

Geomatics World

- · Miaoyi Li, Shaoqing Dai, Jingyuan Wang, Zhenjiang Shen.
- · 23(3), 20-26. doi:10.3969/j.issn.1672-1586.2016.03.004
- ·JST



PUBLICATIONS-BOOK CHAPTER

2025

Healthcare service allocation and planning & Emerging fields in health geography

In Health Geography(in Chinese) edited by Peng Jia, Beijing: China Higher Education Press. IBSN:978-7-04-063403-7

· Yuanyuan Shi, Shaoqing Dai, Peng Jia

2019

Individual and Interactive Influences of Anthropogenic and Ecological Factors on Forest PM2.5 Concentrations at an Urban Scale

Advances in Quantitative Remote Sensing in China–In Memory of Prof. Xiaowen Li

• Guoliang Yun, Shudi Zuo, **Shaoqing Dai**, Xiaodong. Song, Chengdong Xu, Yilan Liao, Peiqiang Zhao, Weiyin Chang, Qi Chen, Yaying Li, Jianfeng Tang, Wang Man, Yin Ren.



PUBLICATIONS-PATENT

2020

Improving the accuracy of forest biomass estimate using source analysis and machine learning

CN111814397A

· Yin Ren, Xiaoman Zheng, Shaoqing Dai, Qi Chen, Shudi Zuo

2019

A forest inventory biomass estimation model by multi-sources data fusion

CN110162872A

· Yin Ren, Shaoqing Dai, Shudi Zuo, Xiaoman Zheng.

2018

A mixed-effect model for estimation of large area subtropical forest biomass

CN108959705A

 \cdot Qi Chen, Yin Ren, Xiaoman Zheng, Shudi Zuo, **Shaoqing Dai**



■ PUBLICATIONS-SOFTWARE COPYRIGHT

2019

A water saftety monitation system based on environmental IOT data and InVEST model. V1.0

· RN: 2019SR0517519

2018

A water conservation service monitation system based on environmental IOT data

· RN: 2018SR745897



PUBLICATIONS-OPEN DATASET & CODE

2024

Code and data to support 'Street view imagery for built environment auditing: a systematic review' (Version 5)

Zenodo.

- · Shaoqing Dai, Alfred Stein, Yuchen Li, Shujuan Yang, Peng Jia.
- · doi:10.5281/zenodo.10724305

2020

GISerDaiShaoqing/3dmodelFJNU 1.0 (Version 1.0)

Zenodo.

- · Shaoqing Dai
- · doi:10.5281/zenodo.4277977

2020

GISerDaiShaoqing/Urban-Carbon-Dioxide-sources-gridded-mapsand-itsdetemination-in-Jinjiang-city o.6 (Version o.6)

Zenodo.

- · Shaoqing Dai, Shudi Zuo, Yin Ren.
- · doi:10.5281/zenodo.3566072



RESEARCH PROJECTS

2028 2025 The precise monitoring and analysis for residential environment risk factors and health effects among vulnerable populations

Special Program for the Introduction of Overseas Postdoctoral **Talents**

· PI

Early Identification and Screening of Risk Factors for Chronic 2026 Complications in Diabetes Patients by Combining Traditional Chinese 2024 and Western Medicine Research Project of Collaborative Chronic Disease Management by Traditional Chinese and Western Medicine · Investigator Evaluation and prevention of health risks in the community home 2026 environment for the elderly and children, and development of 2023 appropriate products National Key Research and Development Plan(2023YFC3604704) · Investigator The mechanism of the impact of urban neighbohood-level walkability on 2025 child obesity 2022 National Natural Science Foundation of China(42271433) · Investigator Investigating the Changes of Residents' Daily Behaviors, Lifestyles, and 2021 Built Environment During the COVID-19 Pandemic WeSpace Academic Support Plan in 2020: "Tsinghua-Tencent" Emerging Technologies Future Urban Space project · PI 'Research on the key technology research and integration 2020 demonstration of urban agglomeration ecological security in the 2016 Yangtze River Delta National Key Research and Development Plan(2016YFC0502704) · Investigator The construction of Typhoon Disaster Assessment Index Based on GIS 2019 and Multi-source Remote Sensing Data in Fujian Province 2018 Open Fund of the Big Data Institute of Digital Natural Disaster Monitoring in Fujian (NDMBD2018001) · Investigator Scaling up of carbon sequestration for Eucalyptus plantations based on 2018 ETKF-3DVAR hybrid data assimilation 2015 National Natural Science Foundation of China(31470578) · Investigator The Optimization Model of High Education Staff's Refuge Space Under 2015 Earthquake Disater 2014 The Technological Innovation Plan of University Students, Fujian Normal University(cxxl-2014137) · PI

		PRESENTATIONS
2024	•	Development of the frequently used built environmental auditing and simulation tools in health domain
		4th International Symposium on Spatial Lifecourse Health ◆ Wuhan, China
		•
2024	•	Development of the frequently used environmental exposome observation tools in health domain
		2024 Health Geography Youth Scholars Forum
2024		Bridging environment and human health: from earth observation to human-center observation(invited)
		Al 4D City lab, Hong Kong University of Science and Technology (Guangzhou)
		♥ Guangzhou, China
2024	•	Assessment of physical activity opportunities based on multi-source geospatial data
		9th Youth Geoscience Forum • Xiamen, China
2024		The frequently used built environmental auditing tools in the health domain
		Ist National Remote Sensing and Geographic conference • Nanjing, China
2027		Coalring your interest and going sheed will contribute to guessas(invited)
2023	Ĭ	Seeking your interest and going ahead will contribute to success(invited) Xiamen No.1 High School of Fujian Xiamen, China
		•
2022		Do neighborhood boundaries matter for examining the associations between environmental factors and obesity(invited)
		The 29th International Conference on Geoinformatics in 2022 session 10-2 GIScience for Public Health
		♠ Beijing, China

The Evaluation of Health Effect of Short-term Exposure to PM2.5 during 2020 Spring Festival: A Case Study of 25 Cities in the Yangtze River Delta(invited) The Workshop of 16th Spatial Behavior and Planning & Digitalization and Fine-Grained Governance ♥ Xiamen, China What is geography? From coronavirus disease 2019 to Bei Dou Systems 2020 **♀** Xiamen, China Tong An No.1 High School of Fujian The Scale Effect, Zoning Effect of Geographical Features, the Modified 2018 Areal Unit Problem and the Chanlleges of Spatial Stastistics Peijing, China 11th Chinese R Language Conference High-Resolution Mapping of Direct CO₂ Emissions and Uncertainties at 2018 the Urban Scale 13th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences(Spatial Accuracy 2018) Peijing, China The Environmental Effect of Urban Form on PM2.5: A Case Study of 2017 Beijing-Tianjin-Hebei Urban Agglomeration Q Guangzhou, China 9th Chinese Landscape Eoclogy workshop The Assement Platform of Urban Forest Ecosystem Servcie Based on 2017 InVEST model and IOT(invited), 2rd urban environment long-term monitor and sustainable development workshop Shanghai, China The Criminal Geographical Analysis about Walking Environment of 2016 Urban The Workshop of 12th Spatial Behavior and Planning & Spatial-Temporal Behavior and Social Planning Research Peijing, China

Transportation Planning of Smart City on the Basis of Data Augmentation Design Under the Perspective of Humanism: A Case Study of Fuzhou's Cangshan District

10th annual conference of International Association of China Planning

Peijing, China

TEACHING EXPERIENCES

Current 2024

Applications of 3S technology, Information and Communications Technology, Location Based Serviceff and Artificial Intelligence in Health Geography

School of Resource and Environmental Science, Wuhan University

· 60 students, 4 class hours

Current 2024

Applications of Remote Sensing technology in Public Health and **Diseases Prevention**

China CDC National Institute of Parasitic Diseases

· 60 students. 1 class hours

Current 2024

Applications of 3S technology, Information and Communications Technology, Location Based Service, Artificial Intelligence, and Complex Science in Health Geography

School of Resource and Environmental Science, Wuhan University

· 16 students, 9 class hours

SELECTED POSTERS

2017

2017

Quantifying the linear and nonlinear relations between the urban form fragmentation and the carbon emission distribution

2017 AGU Fall Meeting

New Orleans, USA

The relationship between the fragmented urban form landscape and the carbon emission distribution at different resolutions

9th Lecture of Modern Ecology

Shanghai, China

2016

The Simulation Analysis of Waterlogging and the Sponge City Planning Control of Central Urabn Area in Fuzhou City

2016 International Low Impact Development Conference

Peijing, China