# Shaoqing Dai

Awards & Honors

Ph.D Candidate

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■ Hengelosestraat 99, 7514AE, Enschede,the Netherlands

■ Deparment of Earth Obesrvation Science, ITC, UT

Last updated: July 14, 2021

		<u>m</u> Education
		<b>Ph.D.</b> , Faculty of Geo-information Science and Earth Observation(ITC), University of Twente Supervised by Prof. Alfred Stein, Prof.Peng Jia, and Prof. Fei Xu Thesis: Spatial Lifecourse Epidemiology and Health Geography  Major in Acquisition and quality of geo-spatial information(ACQUAL) <b>Q</b> Enschede, Netherlands
		<b>M.Sc.</b> , <i>Institute of Urban Environment, Chinese Academy of Sciences</i> , University of Chinese Academy of Sciences Supervised by Prof. Yin Ren
		Thesis: Creating a Carbon Source and Sink Map by Coupling an Ecological Process Model with an Emission Inventory to Study a Carbon Balance
		Major in Ecology   ♥ Xiamen, China
		<b>B.Sc.</b> , School of Geographical Sciences, Fuajian Normal University Supervised by Prof. Huixian Jiang
		Thesis: The Planning Location and Design of Smart Campus Based on BIM and GIS:A Case Study of Fujian Normal University
		Major in Geographical Science (National Talents Training Base)
		Research Interests
		Health Geography; Spatial Lifecourse Epidemiology; Spatial Statistics; Urban Computing; Spatial-Temporal Big Data; Ecoinformatics
		□ Developed Open Software & Project
	from 2017	Note of Applied Statistics with R
		http://gisersqdai.top/Note-of-Applied-Statistics-with-R-Book/
	from 2018	D3L Tool of NASA Satellite
		The program provides a graphical interface to download satellite imagery from NASA, such as MODIS products, MERIS and more information can see <a href="http://gisersqdai.top/D3LToo1/">http://gisersqdai.top/D3LToo1/</a>
	from 2018	Geographical detector in R  The geographical detector software based on R.
	from 2018	GitHub Paper Notebook The software for notebook of papers.
<u>~</u>	from 2019	
Ш	110111 2019	rgeoda rgeoda is a R package for spatial data analysis based on libgeoda and GeoDa(contributor).
	from 2020	COVID-19 Dashboard shiny app
		A developed dashboard shiny app about COVID-19. <a href="https://gisersqdai.shinyapps.io/COVID19VIS/">https://gisersqdai.shinyapps.io/COVID19VIS/</a>
	trom 2020	Awesome COVID-19 Resources of COVID-19 research. <a href="http://covid19.gisersqdai.top/en-us/">http://covid19.gisersqdai.top/en-us/</a>

2021.07	The National 2nd Prize in the 5th Planning Decision Support Model Design Contest(Chengyuan Cup)
2019.06	China Scholarship Council(CSC) ♥ China
2019.06	The 2nd Grade Scholarship of Yonker Environmental Protection Scholarship ♥ China
2019.06	The 1st Grade Scholarship of Institute of Urban Environment, Chinese Academy of Sciences[ $No.3$ in Institute] $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
2019.01	The Scientific and Technological Innovation Award of Outstanding Graduate Students of the Ecological Society of China
 	♥ China
2018.11	National Scholarship for M.Sc[top 2-3%]   ♥ China
2018.10	The National 3rd Prize in Urban Big Data Special Committee, Chinese Society for Urban Studies the 2nd Big Data Support Spatial Planning and Design Competition
2018.07	'Applied Energy' 2018 Summer School Certification   ♥ Beijing, China
2018.06	Merit Students in the academic year 2017-2018, University of Chinese Academy of Sciences
2018.06	The 2nd Grade Scholarship of Institute of Urban Environment, Chinese Academy of Sciences[No.9 in Institute]
2018.06	The 1st Scholarship of Institute of Urban Environment, Chinese Academy of Sciences   ♥ Xiamen, China
2018.03	The National Winning Award in National Science & Technology Infrastructure Center, 2017 'Sharing Cup' College Student Science and Technology Resource Sharing Service Innovation Contest  • China
2017.10	'Excellent Volunteer' award of 15th User Conference of Esri China
2017.06	Merit Students in the academic year 2016-2017, University of Chinese Academy of Sciences
2015.11	The National Winning Award in 2015 Esri Cup National Collegiate Developed Contest in GIS · 3D Modeling and Design
2015.11	Inovation Scholoarships in the academic year 2014-2015, Fujian Normal University <b>♥</b> Fuzhou, China
2015.07	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
2015.05	The First Annual Fujian Normal University Student Selection, Scientific and Technological Innovation award and Nomination
2015.03	The School Wining Award during the 9th Challenge Cup National College Students' Extracurricular Academic Science and Technology Works Contest   ♥ Fuzhou, China
2014.11	Inovation Scholoarships in the academic year 2013-2014, Fujian Normal University <b>♥</b> Fuzhou, China
2014.07	The National 3rd Prize in 2014 MathorCup Global Collegiate Mathematical Contest in Modeling ♥ China
2014.05	'Excellent League Cadres' in the academic year 2013-2014, Fujian Normal University ♥ Fuzhou, China
2014.05	'Excellent League Leader' in the academic year 2013-2014, School of Geographical Sciences, Fujian Normal University    • Fuzhou, China
2013.05	'Excellent League Leader' in the academic year 2012-2013, School of Geographical Sciences, Fujian Normal University

<b>from 2019</b>	International Institute of Spatial Lifecourse Epidemiology (ISLE)	Fellow
from 2019	GeoDa Center, rgeoda, libgeoda Github Organizations	Contributor
from 2015	The Organizations "Sustainable Cities & Mobility"	Volunteer
<b>from 2020</b>	GISphere	Editor Board, Member
2018-2020	Aliyunqi Community	Expert
2017-2019	International Association of Landscape Ecology of China(IALE-China)	Member
2016-2017	Green Bike-Transit	Volunteer
2013-2017	The Geographical Tribune of Youth	
	Founder, Editor in Chief, Associate Editor,	Assistant Editor in Chief
<b>from 2019</b>	European Heart Journal, Data in Brief, The Journal of Open Source	Software, Shanghai Urban
	Planning Review	
		Reviewer



<sup>\*</sup>corresponding author, #co-first author.

## Peer-Reviewed Journal Articles

- 1. Peng Jia, **Shaoqing Dai**, Tong Wu, Shujuan Yang. (2021). New approaches to anticipate the risk of reverse zoonosis. *Trends in Ecology & Evolution*. *36*(7), 580-590. doi:10.1016/j.tree.2021.03.012. [SCI, IF = 17.712].
- 2. Panfeng Dou, Shudi Zuo, Yin Ren, Manuel J. Rodriguez, **Shaoqing Dai**. (2021). 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*. 290, 112588. doi:10.1016/j.jenvman.2021.112588. [SCI, IF = 6.789].
- 3. Shujuan Yang, **Shaoqing Dai**, Yuling Huang, Peng Jia. (2021). Pitfalls in Modeling Asymptomatic COVID-19 Infection. *Frontiers in Public Health. 9*, 593176. doi:10.3389/fpubh.2021.593176. [SCI, IF = 3.709].
- 4. Lulu Song, **Shaoqing Dai**, Zhi Cao, Yupeng Liu, Weiqiang Chen. (2021). High spatial resolution mapping of steel resources accumulated above ground in mainland China: Past trends and future prospects. *Journal of Cleaner Production*. 297, 144609. doi:10.1016/j.jclepro.2021.126482. [SCI, IF = 9.297].
- 5. Shudi Zuo, Lianping Yang, Panfeng Dou, Hung Chak Ho, **Shaoqing Dai**, Wenjun Ma, Yin Ren, Cunrui Huang. (2020). The direct and interactive impacts of hydrological factors on bacillary dysentery across different geographical regions in central China. *Science of the Total Environment*. *764*, 144609. doi:10.1016/j.scitotenv.2020.144609. [SCI, IF = 7.963].
- 6. **Shaoqing Dai**<sup>#</sup>, Yin Ren<sup>#</sup>, Shudi Zuo, Chengyi Lai, Jiajia Li, Shengyu Xie, Bingchu Chen. (2020). Investigating the uncertainties propagation analysis of CO<sub>2</sub> emissions gridded maps at the urban scales: a case study of Jinjiang city, China. *Remote Sensing*. 12(23), 3932. doi:10.3390/rs12233932. [SCI, IF = 4.848].
- 7. **Shaoqing Dai**, Jiajia Li, WeiXu Yang, Fangyu Chen, Huixian Jiang. (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.* 05, 22-29. doi:10.11982/j.supr.20200504. [in Chinese].
- 8. Peng Jia, **Shaoqing Dai**, Kristen. E. Rohli, Robert V. Rohli, Yanan Ma, Chao Yu, Xiongfeng Pan, Weiqi Zhou. (2020). Natural environment and childhood obesity: A systematic review. *Obesity Reviews*. 1-9. doi:10.1111/obr.13097. [SCI, IF = 9.213].
- 9. XiaoFang Pan, Hu Li, Lixin Zhao, Xiaoru Yang, Jianqiang Su, **Shaoqing Dai**, Jing Ning, Chunxing Li, Guanjing Cai, GeFu Zhu. (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*. *278*, 123418. doi:10.1016/j.jclepro.2020.123418. [SCI, IF = 9.297].
- 10. Peng Jia, Xinxi Cao, Hongxi Yang, **Shaoqing Dai**, Pan He, Ganlin Huang, Tong Wu, Yaogang Wang. (2020). Green space access in the neighbourhood and childhood obesity. *Obesity Reviews*. 1-12. doi:10.1111/obr.13100. [SCI, IF = 9.213].
- 11. Miyang Luo, Hanqi Li, Xiongfeng Pan, Teng Fei, **Shaoqing Dai**, Ge Qiu, Yuxuan Zou, Heleen Vos, Jiayou Luo, Peng Jia. (2020). Neighbourhood speed limit and childhood obesity. *Obesity Reviews*. 1-11. doi:10.1111/obr.13052. [SCI, IF = 9.213].
- 12. Shengyu Xie, Guangwei Yu, Chunxing Li, Jie Li, Gang Wang, Shaoqing Dai, Yin Wang. (2020). Treatment of

- high-ash industrial sludge for producing improved char with low heavy metal toxicity. Journal of Analytical and Applied Pyrolysis. 150, 104866. doi:10.1016/j.jaap.2020.104866. [SCI, IF = 5.541].
- 13. Xiongfeng Pan, Li Zhao, Jiayou Luo, Yinhao Li, Lin Zhang, Tong Wu, Melody Smith, **Shaoqing Dai**, Peng Jia. (2020). Access to bike lanes and childhood obesity: A systematic review and meta-analysis. *Obesity Reviews*. 1-11. doi:10.1111/obr.13042. [SCI, IF = 9.213].
- 14. **Shaoqing Dai**, Shudi Zuo, Yin Ren. (2020). A spatial database of  $CO_2$  emissions, urban form fragmentation and city-scale effect related impact factors for the low carbon urban system in Jinjiang city, China. *Data in Brief.* 29, 105274. doi:10.1016/j.dib.2020.105274. [ESCI, CiteScore = 1.7].
- 15. Shudi Zuo, **Shaoqing Dai**, Yin Ren. (2019). More fragmentized urban form more CO<sub>2</sub> emissions? An comprehensive relationship from the combination analysis across different scales. *Journal of Cleaner Production*. 244, 118659. doi:10.1016/j.jclepro.2019.118659. [SCI, IF = 9.297].
- 16. Panfeng Dou, Shudi Zuo, Yin Ren, **Shaoqing Dai**, Guoliang Yun. (2019). The impacts of climate and land use/land cover changes on water yield service in Ningbo region. *Acta Scientiae Circumstantiae*. *39*(7), 2398-2409. doi:10.13671/j.hjkxxb.2019.0122. [CSCD, in Chinese].
- 17. Qing Yang, Tianyue Huang, Saige Wang, Jiashuo Li, **Shaoqing Dai**, Sebastian Wright, Yuxuan Wang, Huaiwu Peng. (2019). A GIS-based high spatial resolution assessment of large-scale PV power generation potential and associated  $CO_2$  emission reduction in China. *Applied Energy.* 247, 254-269. doi:10.1016/j.apenergy.2019.04.005. [SCI, IF = 9.746].
- 18. Guoliang Yun, Yuanrong He, Yuantong Jiang, Panfeng Dou, **Shaoqing Dai**. (2019). PM2.5 spatiotemporal evolution and drivers in the Yangtze River Delta between 2005 and 2015. *Atmosphere*. 10(2), 55. doi:10.3390/atmos10020055. [SCI, IF = 2.686].
- 19. Shudi Zuo, **Shaoqing Dai**, Xiaodong Song, Chengdong Xu, Yilan Liao, Weiyin Chang, Qi Chen, Yaying Li, Jianfeng Tang, Wang Man, Yin Ren. (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*. 10(11), 1814. doi:10.3390/rs10111814. [SCI, IF = 4.848].
- 20. Shudi Zuo, **Shaoqing Dai**, Yaying Li, Jianfeng Tang, Yin Ren. (2018). Analysis of Heavy Metal Sources in the Soil of Riverbanks Across an Urbanization Gradient. *International Journal of Environmental Research and Public Health*. 15(10), 2175. doi:10.3390/ijerph15102175. [SCI, IF = 3.390].
- 21. **Shaoqing Dai**, Huixian Jiang, Jiajia Li, Xian Su, Juan Wu, Yin Ren. (2018). Influence of walking environment on robbery, snatch and theft crime in urban area, H city, China. *Scientia Geographica Sinica*. *38*(8), 1235-1244. doi:10.13249/j.cnki.sgs.2018.08.005. [CSCD, in Chinese].
- 22. 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. (2018). Individual and Interactive Influences of Anthropogenic and Ecological Factors on Forest PM2.5 Concentrations at an Urban Scale. *Remote Sensing*. 10(4), 521. doi:10.3390/rs10040521. [SCI, IF = 4.848].
- 23. Qin Ye, Gang Zeng, **Shaoqing Dai**, Fenglong Wang. (2018). Research on the effects of different policy tools on China's emissions reduction innovation. *China Population, Resources and Environment.* 28(02), 115-122. doi:10.12062/cpre.20170915. [CSCD, in Chinese].
- 24. Qin Ye, **Shaoqing Dai**, Gang Zeng. (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*. *16*(1), 1-11. doi:10.1080/10042857.2017.1418273. [ESCI, CiteScore = 2.7].
- 25. Miaoyi Li, **Shaoqing Dai**, Jingyuan Wang, Zhenjiang Shen. (2016). The Analysis of Urban Spatial Development Pattern in Beijing Based on the Big Data of Government. *Geomatics World*. 23(3), 20-26. doi:10.3969/j.issn.1672-1586.2016.03.004. [in Chinese].

#### Book Chapter

- 1. 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. (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*.316-332.
- 2. **Shaoqing Dai**, Jiajia Li, Shudi Zuo, Yin Ren, Huixian Jiang. (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.* 251-260. doi:10.1061/9780784481042.028. [EI]

# Patent

- 1. Yin Ren, Xiaoman Zheng, **Shaoqing Dai**, Qi Chen, Shudi Zuo. Improving the accuracy of forest biomass estimate using source analysis and machine learning. (*under review*).
- 2. Yin Ren, **Shaoqing Dai**, Shudi Zuo, Xiaoman Zheng. A forest inventory biomass estimation model by multi-sources data fusion. (*under review*).
- 3. Qi Chen, Yin Ren, Xiaoman Zheng, Shudi Zuo, **Shaoqing Dai**. A mixed-effect model for estimation of large area subtropical forest biomass. (*under review*).

## Software Copyright

- 1. A water saftety monitation system based on environmental IOT data and InVEST model. V1.0. *RN: 2019SR0517519*. (2019).
- 2. A water conservation service monitation system based on environmental IOT data. V1.0. *RN: 2018SR745897*. (2018).

## Conference Paper & Abstract

- 1. **Shaoqing Dai**, Jiajia Li, Weixu. Yang, Fangyu Chen, Huixian Jiang. (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. *The Workshop of 16th Spatial Behavior and Planning & Digitalization and Fine-Grained Governance, abstract.*
- 2. Jiajia Li, Yupeng Liu, **Shaoqing Dai**, Keying Xiang, Huixian Jiang, Weiqiang Chen. (2019). The night light uncovers city's weight—A case study on estimating construction materials in Fuzhou, China. *10th International Conference on Industrial Ecology, abstract 320*.
- 3. **Shaoqing Dai**. (2018). The Scale Effect, Zoning Effect of Geographical Features, the Modified Areal Unit Problem and the Chanlleges of Spatial Stastistics. *11th Chinese R Language Conference, abstract*.
- 4. **Shaoqing Dai**, Shudi Zuo, Yin Ren. (2018). High-resolution mapping of direct CO<sub>2</sub> emissions and uncertainties at the urban scale. *Proceedings of Spatial Accuracy 2018*. 88-90. [EI].
- 5. **Shaoqing Dai**<sup>#</sup>, Xiaoman Zheng, Shudi Zuo, Yin Ren. (2018). Improving the prediction accuracy of forest aboveground biomass benchmark map by integrating machine learning and spatial statistics. *Proceedings of Spatial Accuracy 2018*. 80-83. [EI].
- 6. Shudi Zuo, **Shaoqing Dai**, Yin Ren, Zhaowu Yu. (2017). Quantifying the linear and nonlinear relations between the urban form fragmentation and the carbon emission distribution. *American Geophysical Union, Fall Meeting 2017, abstract GC21G-1007*.
- 7. **Shaoqing Dai**, Yin Ren, Shudi Zuo, Min Dai, Pan Chen, Zhao Wang, Lingxing Xu, Jianwei Qi, Guoliang Yun. (2017). The Environmental Effect of Urban Form on PM2.5: A Case Study of Beijing-Tianjin-Hebei Urban Agglomerations. *9th Chinese Landscape Eoclogy workshop, abstract*.
- 8. Qin Ye, Gang Zeng, **Shaoqing Dai**, Fenglong Wang. (2017). Research on the Effects of Different Policy Tools on China's Energy Conservation and Emissions Reduction Innovation Based on the Panel Data of 285 prefectural-level municipalities. 2017 annual conference of the Chinese geographical society, economic geography and Specialized Committee Abstracts Proceedings, abstract.
- 9. **Shaoqing Dai**, Yin Ren, Shudi Zuo. (2017). The relationship between the fragmented urban form landscape and the carbon emission distribution at different resolutions. *9th Lecture of Modern Ecology, abstract*.
- 10. **Shaoqing Dai**, Huixian Jiang, Jiajia Li, Xian Su, Juan Wu, Kun Chen. (2016). The environmental crime analysis based on WalkScore and CGT model, a case study of H city. *The Workshop of 12th Spatial Behavior and Planning & Spatial-Temporal Behavior and Social Planning Researchg, abstract.*
- 11. **Shaoqing Dai**, Huixian Jiang, Jiajia Li, Qingwei Xu. (2016). 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, abstract 1813.*
- 12. **Shaoqing Dai**, Huixian Jiang, Jiajia Li. (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, paper 391*.

#### Open Dataset & Code

- 1. Shaoqing Dai. (2020). GISerDaiShaoqing/3dmodelFJNU 1.0 (Version 1.0). Zenodo. doi:10.5281/zenodo.4277977.
- 2. **Shaoqing Dai**, Shudi Zuo, Yin Ren. (2020). GISerDaiShaoqing/Urban-Carbon-Dioxide-sources-gridded-maps-and-its-determination-in-Jinjiang-city 0.6 (Version 0.6). Zenodo. doi:10.5281/zenodo.3566072.

# Papers submitted/under revision

- 1. **Shaoqing Dai**<sup>#</sup>, Xiaoman Zheng<sup>#</sup>, Lei Gao, Chengdong Xu, Shudi Zuo, Qi Chen, Xiaohua Wei, Yin Ren. Improving plot-level model of forest aboveground biomass: A combined approach using machine learning with spatial statistics. *Ecosphere*. (*under review*).
- 2. Xiaoman Zheng, **Shaoqing Dai**, Qi Chen, Kim Calders, Chengdong Xu, Xiaohua Wei, Mazhan Zhuang, Yin Ren. Integrating Spatial Statistics and Machine Learning to Analyze Error Sources in Estimating Forest Aboveground Biomass from Airborne LiDAR Data. *Agricultural and Forest Meteorology*. (under revision).
- 3. Weichao Wang, Xian Liu, Changwen Zhang, Fei Sheng, Shanjun Song, Penghui Li, **Shaoqing Dai**, Bin Wang, Dawei Lu, Luyao Zhang, Xuezhi Yang, Kuo Yang, Sijin Liu, Aiqian Zhang, Qian Liu, Guibin Jiang. Two-dimensional copper fingerprints in blood as biomarker for bladder cancer with machine learning. . (submitted).
- 4. Peng Jia, Tong Wu, Ross C. Brownson, Yan Kestens, Miyang Luo, Shiyong Liu, **Shaoqing Dai**, Jing Su, Gordon G. Liu, Shujuan Yang. Impacts of and vulnerability to the COVID-19 pandemic: a planetary health perspective. *Engineering*. (*under review*).
- 5. Yupeng Liu, Jiajia Li, Weiqiang Chen, Lulu Song, **Shaoqing Dai**. Quantifying Urban Weight Gain And Loss by A GIS-based Material Stocks And Flows Analysis. *Journal of Industrial Ecology.* (under review).

A GIS-based	I Material Stocks And I lows Allalysis. Journal of Mudstrial Ecology. (under review).	
	Research Projects	
<b>2</b> 021-2021	'Investigating the Changes of Residents' Daily Behaviors, Lifestyles, and Built Environment During the COVID-19 Pandemic', WeSpace Academic Support Plan in 2020: "Tsinghua-Tencent" Emerging Technologies Future Urban Space project	
<b>2018-2019</b>	'The construction of Typhoon Disaster Assessment Index Based on GIS and Multi-source Remote Sensing Data in Fujian Province', Open Fund of the Big Data Institute of Digital Natural Disaster Monitoring in Fujian (NDMBD2018001)  Investigator	
2016-2020	'Research on the key technology research and integration demonstration of urban agglomeration ecological security in the Yangtze River Delta', National Key Research and Development Plan(2016YFC0502704)  Investigator	
2015-2018	'Scaling up of carbon sequestration for Eucalyptus plantations based on ETKF-3DVAR hybrid data assimilation', National Natural Science Foundation of China(31470578) Investigator	
2015-2016	'The Spatiotemporal Difference of Tourism in Fujian Province Based on Spatial Mismatch Theory The Technological Innovation Plan of University Students, Fujian Normal University(cxxl-2015137 Investigato	
<b>2</b> 015-2016	'The Spatial Optimization Evaluation of Medical Facility Based on GIS in Cangshan District, Fuzhou' The Technological Innovation Plan of University Students, Fujian Normal University(cxxl-2015146)  Investigator	
<b>2</b> 014-2015	'The Optimization Model of High Education Staff's Refuge Space Under Earthquake Disater', The Technological Innovation Plan of University Students, Fujian Normal University(cxxl-2014137) Plant	
	Q Presentations	
<b>2</b> 020.12.12	The Evaluation of Health Effect of Short-term Exposure to PM2.5 during Spring Festivals 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 University, Xiamen, China	
<b>്</b> 2020 08 07	What is geography? From coronavirus disease 2019 to Bei Dou Systems(invited), Geography	
2020.00.07	lecture group, Tong An No.1 High School of Fujian	
	♥ Tong An No.1 High School of Fujian, Xiamen, China	
<b>2</b> 018.05.27	The Scale Effect, Zoning Effect of Geographical Features, the Modified Areal Unit Problem and the Chanlleges of Spatial Stastistics, 11th Chinese R Language Conference	

Renmin University of China, Beijing, China

<b>2</b> 018.05.22	High-Resolution Mapping of Direct CO₂ Emissions and Uncertainties at the Urban Scale, 13th International Symposium on Spatial Accuracy Assessment in Natural Resources and Environmental Sciences(Spatial Accuracy 2018)  • China National Convention Center, Beijing, China
<b>^</b>	
<b>2</b> 017.11.11	The Environmental Effect of Urban Form on PM2.5: A Case Study of Beijing-Tianjin-Hebei Urban Agglomeration, 9th Chinese Landscape Eoclogy workshop  Sanyu Houtel, Guangzhou, China
<b>1</b>	,
2017.09.28	The Assement Platform of Urban Forest Ecosystem Servcie Based on InVEST model and IOT(invited), 2rd urban environment long-term monitor and sustainable development workshop  Shanghai Normal University, Shanghai, China
<b>2</b> 016.11.27	The Criminal Geographical Analysis about Walking Environment of Urban, The Workshop of 12th Spatial Behavior and Planning & Spatial-Temporal Behavior and Social Planning Research
<b>2</b> 016.07.01	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
	<b>♥</b> Peking University, Beijing, China
	Selected Posters
<b>2</b> 017.12.10	Quantifying the linear and nonlinear relations between the urban form fragmentation and the carbon emission distribution, 2017 AGU Fall Meeting
	<b>♥</b> New Orleans, LA, USA.
<b>2</b> 017.05.16	The relationship between the fragmented urban form landscape and the carbon emission distribution at different resolutions, 9th Lecture of Modern Ecology
	<b>♀</b> Shanghai, China
<b>2</b> 016.06.26	The Simulation Analysis of Waterlogging and the Sponge City Planning Control of Central Urabn Area in Fuzhou City, 2016 International Low Impact Development Conference
Chinese	Native English First foreign language
	☐ Expertise & Skills
Major	GIScience, Remote Sensing, Health Geography, Spatial Statistics, Urban Studies, Environments, Ecological Modelling, Landscape Ecology
Programming Expertise	R, Python, CGA, Shell, LaTeX, Makrdown, Github ArcGIS, ENVI, Erdas Image, City Engine