

# Shaoqing Dai

Ph.D Candidate

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Department of Earth Observation Science, ITC, UT



Last updated: November 18, 2020

## Education

- 2020.01-present **Ph.D.**, Faculty of Geo-information Science and Earth Observation(ITC), University of Twente  
Supervised by Prof. Alfred Stein and Prof. Peng Jia  
Thesis: *Spatial Lifecourse Epidemiology and Health Geography*  
Major in Acquisition and quality of geo-spatial information(ACQUAL)   📍 Enschede, Netherlands
- 2016.09-2019.06 **M.Sc.**, Institute of Urban Environment, Chinese Academy of Sciences, 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
- 2012.09-2016.06 **B.Sc.**, School of Geographical Sciences, Fujian Normal University  
Supervised by Associate 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)   📍 Fuzhou, China

## Research Interests

Health Geography; Spatial Lifecourse Epidemiology; Spatial Statistics; Urban Computing; Spatial-Temporal Big Data; Ecoinformatics

## Developed Open Software

- 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 <http://gisersqdai.top/D3LTool/>)
- from 2018 Geographical detector in R  
(The geographical detector software based on R)
- from 2018 GitHub Paper Notebook  
(The software for notebook of papers)
- from 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. <https://gisersqdai.shinyapps.io/COVID19VIS/>)

## Awards & Honors

- 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]   📍 Xiamen, China

|   |         |  |                  |
|---|---------|--|------------------|
| 📅 | 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[ <i>top 2-3%</i> ]   | 📍 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                           | 📍 China          |
| 📅 | 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   | 📍 Beijing, China |
| 📅 | 2018.06 | The 2nd Grade Scholarship of Institute of Urban Environment, Chinese Academy of Sciences[ <i>No.9 in Institute</i> ]   | 📍 Xiamen, China  |
| 📅 | 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  | 📍 China          |
| 📅 | 2017.06 | Merit Students in the academic year 2016-2017, University of Chinese Academy of Sciences   | 📍 Beijing, China |
| 📅 | 2015.11 | The National Winning Award in 2015 Esri Cup National Collegiate Developed Contest in GIS · 3D Modeling and Design  | 📍 China          |
| 📅 | 2015.11 | Inovation Scholarships in the academic year 2014-2015, Fujian Normal University  | 📍 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          | 📍 China          |
| 📅 | 2015.05 | The First Annual Fujian Normal University Student Selection, Scientific and Technological Innovation award and Nomination  | 📍 Fuzhou, China  |
| 📅 | 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 Scholarships in the academic year 2013-2014, Fujian Normal University  | 📍 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  | 📍 Fuzhou, China  |

## 👥 Academic Service & Affiliations

|   |           |   |                     |
|---|-----------|---|---------------------|
| 📅 | from 2019 | International Initiative on Spatial Lifecourse Epidemiology (ISLE)                                | <b>Fellow</b>       |
| 📅 | from 2019 | GeoDa Center, rgeoda, libgeoda Github Organizations   | <b>Contributor</b>  |
| 📅 | from 2015 | The Organizations "Sustainable Cities & Mobility"   | <b>Volunteer</b>    |
| 📅 | from 2018 | Aliyunqi Community  | <b>Expert</b>       |
| 📅 | from 2020 | Guide for GIS study abroad, <a href="https://gis-info.github.io/">https://gis-info.github.io/</a> | <b>Editor Board</b> |
| 📅 | 2017-2019 | International Association of Landscape Ecology of China(IALE-China)                               | <b>Member</b>       |

📅 2016-2017 Green Bike-Transit

Volunteer

📅 2013-2017 The Geographical Tribune of Youth

Founder, Editor in Chief, Associate Editor, Assistant Editor in Chief

📅 from 2019 European Heart Journal, Data in Brief, The Journal of Open Source Software, Shanghai Urban Planning Review

Reviewer

## 📖 Publications

\*corresponding author, #co-first author.

### 📖 Peer-Reviewed Journal Articles

1. **SQ. Dai**, JJ. Li, WE. Yang, FY. Chen, HX. Jiang. (2020). The Evaluation of Health Effect of Short-term Exposure to PM<sub>2.5</sub> 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]
2. P. Jia, **SQ. Dai**, K. E. Rohli, R.V. Rohli, YN. Ma, C. Yu, XF. Pan, WQ. Zhou. (2020). Natural environment and childhood obesity: A systematic review. *Obesity Reviews*. 1-9. doi:10.1111/obr.13097. [SCI, IF = 7.31]
3. XF. Pan, H. Li, LX. Zhao, XR. Yang, JQ. Su, **SQ. Dai**, J. Ning, CX. Li, GJ. Cai, GF. 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 = 7.246]
4. P. Jia, XX. Cao, HX. Yang, **SQ. Dai**, P. He, GL. Huang, T. Wu, YG. Wang. (2020). Green space access in the neighbourhood and childhood obesity. *Obesity Reviews*. 1-12. doi:10.1111/obr.13100. [SCI, IF = 7.31]
5. MY. Luo, HQ. Li, XF. Pan, T. Fei, **SQ. Dai**, Q. Ge, YX. Zou, H. Vos, JY. Luo, P. Jia. (2020). Neighbourhood speed limit and childhood obesity. *Obesity Reviews*. 1-11. doi:10.1111/obr.13052. [SCI, IF = 7.31]
6. SY. Xie, GW. Yu, CX. Li, J. Li, G. Wang, **SQ. Dai**, Y. 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 = 3.905]
7. XF. Pan, L. Zhao, JY. Luo, YH. Li, L. Zhang, T. Wu, M. Smith, **SQ. Dai**, P. 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 = 7.31]
8. **SQ. Dai**, SD. Zuo, Y. Ren. (2020). A spatial database of CO<sub>2</sub> 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. [CiteScore = 1.5]
9. SD. Zuo, **SQ. Dai**, Y. Ren. (2020). More fragmented 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 = 7.246]
10. PF. Dou, SD. Zuo, Y. Ren, **SQ. Dai**, GL. 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]
11. Q. Yang, TY. Huang, SG. Wang, JS. Li, **SQ. Dai**, S. Wright, YX. Wang, & HW. Peng. (2019). A GIS-based high spatial resolution assessment of large-scale PV power generation potential and associated CO<sub>2</sub> emission reduction in China. *Applied Energy*. 247, 254-269. doi:10.1016/j.apenergy.2019.04.005. [SCI, IF = 8.848]
12. GL. Yun, YR. He, YT. Jiang, PF. Dou, **SQ. Dai**. (2019). PM<sub>2.5</sub> spatiotemporal evolution and drivers in the Yangtze River Delta between 2005 and 2015. *Atmosphere*. 10(2), 55. doi:10.3390/atmos10020055. [SCI, IF = 2.397]
13. SD. Zuo, **SQ. Dai**, XD. Song, CD. Xu, YL. Liao, WY. Chang, Q. Chen, YY. Li, JF. Tang, W. Man, Y. 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 = 4.509]
14. SD. Zuo, **SQ. Dai**, YY. Li, JF. Tang, Y. 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 = 2.849]
15. **SQ. Dai**, HX. Jiang, JJ. Li, X. Su, J. Wu, Y. 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]

16. GL. Yun, SD. Zuo, **SQ. Dai**, XD. Song, CD. Xu, YL. Liao, PQ. Zhao, WY. Chang, Q. Chen, YY. Li, JF. Tang, W. Man, Y. 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 = 4.509]
17. Q. Ye, G. Zeng, **SQ. Dai**, FL. 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]
18. Q. Ye, **SQ. Dai**, G. 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 = 1.9]
19. MY. Li, **SQ. Dai**, JY. Wang, ZJ. 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. GL. Yun, SD. Zuo, **SQ. Dai**, XD. Song, CD. Xu, YL. Liao, PQ. Zhao, WY. Chang, Q. Chen, YY. Li, JF. Tang, W. Man, Y. 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. **SQ. Dai**, JJ. Li, SD. Zuo, Y. Ren, HX. 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. Y. Ren, XM. Zheng, **SQ. Dai**, Q. Chen, SD. Zuo. Improving the accuracy of forest biomass estimate using source analysis and machine learning. (*under review*).
2. Y. Ren, **SQ. Dai**, SD. Zuo, XM. Zheng. A forest inventory biomass estimation model by multi-sources data fusion. (*under review*).
3. Q. Chen, Y. Ren, XM. Zheng, SD. Zuo, **SQ. Dai**. A mixed-effect model for estimation of large area subtropical forest biomass. (*under review*).

#### Software Copyright

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

#### Conference Paper & Abstract

1. JJ. Li, YP. Liu, **SQ. Dai**, KY. Xiang, HX. Jiang, WQ. 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*
2. **SQ. Dai**. (2018). The Scale Effect, Zoning Effect of Geographical Features, the Modified Areal Unit Problem and the Challenges of Spatial Statistics. *11th Chinese R Language Conference, abstract*
3. **SQ. Dai**, SD. Zuo, Y. 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]
4. **SQ. Dai**<sup>#</sup>, XM. Zheng, SD. Zuo, Y. 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]
5. SD. Zuo, **SQ. Dai**, Y. Ren, ZW. 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*.
6. **SQ. Dai**, Y. Ren, SD. Zuo, M. Dai, P. Chen, Z. Wang, LX. Xu, JW. Qi, GL. Yun. (2017). The Environmental Effect of Urban Form on PM2.5: A Case Study of Beijing-Tianjin-Hebei Urban Agglomerations. *9th Chinese*

*Landscape Ecology workshop, abstract.*

7. Q. Ye, G. Zeng, **SQ. Dai**, FL. 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.*
8. **SQ. Dai**, Y. Ren, SD. Zuo. (2017). The relationship between the fragmented urban form landscape and the carbon emission distribution at different resolutions. *9th Lecture of Modern Ecology, abstract.*
9. **SQ. Dai**, HX. Jiang, JJ. Li, X. Su, J. Wu, K. 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.*
10. **SQ. Dai**, HX. Jiang, JJ. Li, QW. 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.*
11. **SQ. Dai**, HX. Jiang, JJ. Li. (2016). The Simulation Analysis of Waterlogging and the Sponge City Planning Control of Central Urban Area in Fuzhou City. *2016 International Low Impact Development Conference, paper 391.*





#### Open Dataset & Code

1. **SQ. Dai**. (2020). GISerDaiShaoqing/3dmodelFJNU 1.0 (Version 1.0). *[Data set]*. Zenodo. doi:10.5281/zenodo.4277977.
2. **SQ. Dai**, SD. Zuo, Y. Ren. (2020). GISerDaiShaoqing/Urban-Carbon-Dioxide-sources-gridded-maps-and-its-determination-in-Jinjiang-city 0.4 (Version 0.4) . *[Data set]*. Zenodo. doi:10.5281/zenodo.3566072.

#### Papers submitted/under revision

1. **SQ. Dai**, SD. Zuo, CY. Lai, JJ. Li, SY. Xie, BC. Chen, Y. Ren. 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. (submitted).*
2. **SQ. Dai**<sup>#</sup>, XM. Zheng, L. Gao, CD. Xu, SD. Zuo, Q. Chen, XH. Wei, Y. Ren. Improving plot-level model of forest aboveground biomass: A combined approach using machine learning with spatial statistics. *Journal of Cleaner Production. (under review).*
3. XM. Zheng, **SQ. Dai**, Q. Chen, K. Calders, CD. Xu, XH. Wei, MZ. Zhuang, Y. 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 review).*
4. LL. Song, **SQ. Dai**, Z. Cao, YP. Liu, WQ. Chen. Spatiotemporal dynamics of steel resources accumulated above ground in mainland China: 1995-2030. *Journal of Cleaner Production. (under revision).*
5. SJ. Yang, **SQ. Dai**, YL. Huang, P. Jia. Commentary: Substantial undocumented infection facilitates the rapid dissemination of novel coronavirus (SARS-CoV2). *Frontiers in Public Health. (under review).*
6. PF. Dou, SD. Zuo, Y. Ren, M.J. Rodriguez, **SQ. Dai**. Refined water security assessment for sustainable water management: A case study of 15 key cities in the Yangtze River Delta, China. *Journal of Hydrology. (under revision).*

#### Research Projects

- |  |           |   |                     |
|--|-----------|---|---------------------|
|  | 2018-2019 | '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) | <b>Investigator</b> |
|  | 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)                         | <b>Investigator</b> |
|  | 2015-2018 | 'Scaling up of carbon sequestration for Eucalyptus plantations based on ETKF-3DVAR hybrid data assimilation', National Natural Science Foundation of China(31470578)  | <b>Investigator</b> |
|  | 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)                                  | <b>Investigator</b> |



- 📅 2015-2016 '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**
- 📅 2014-2015 'The Optimization Model of High Education Staff's Refuge Space Under Earthquake Disaster', The Technological Innovation Plan of University Students, Fujian Normal University(cxxl-2014137) **PI**

## 🗨 Presentations

- 📅 2020.08.07 **What is geography? From coronavirus disease 2019 to Bei Dou Systems**, *Geography lecture group, Tong An No.1 High School of Fujian*  
📍 Tong An No.1 High School of Fujian, Xiamen, China
- 📅 2018.05.27 **The Scale Effect, Zoning Effect of Geographical Features, the Modified Areal Unit Problem and the Challenges of Spatial Statistics**, *11th Chinese R Language Conference*  
📍 Renmin University of China, Beijing, China
- 📅 2018.05.22 **High-Resolution Mapping of Direct CO<sub>2</sub> 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
- 📅 2017.11.11 **The Environmental Effect of Urban Form on PM2.5: A Case Study of Beijing-Tianjin-Hebei Urban Agglomeration**, *9th Chinese Landscape Ecology workshop*  
📍 Sanyu Hotel, Guangzhou, China
- 📅 2017.09.28 **The Assessment Platform of Urban Forest Ecosystem Service Based on InVEST model and IOT(invited)**, *2nd urban environment long-term monitor and sustainable development workshop*  
📍 Shanghai Normal University, Shanghai, China
- 📅 2016.11.27 **The Criminal Geographical Analysis about Walking Environment of Urban**, *The Workshop of 12th Spatial Behavior and Planning & Spatial-Temporal Behavior and Social Planning Research*  
📍 Beijing Union University, Beijing, China
- 📅 2016.07.01 **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*  
📍 Peking University, Beijing, China

## 🖼 Selected Posters

- 📅 2017.12.10 **Quantifying the linear and nonlinear relations between the urban form fragmentation and the carbon emission distribution**, *2017 AGU Fall Meeting*  
📍 New Orleans, LA, USA.
- 📅 2017.05.16 **The relationship between the fragmented urban form landscape and the carbon emission distribution at different resolutions**, *9th Lecture of Modern Ecology*  
📍 Shanghai, China
- 📅 2016.06.26 **The Simulation Analysis of Waterlogging and the Sponge City Planning Control of Central Urban Area in Fuzhou City**, *2016 International Low Impact Development Conference*  
📍 China National Convention Center, Beijing, China

## 🗨 Languages

Chinese Native

English First foreign language

## 💻 Expertise & Skills

|                    |   |
|--------------------|---|
| <b>Major</b>       | GIScience, Remote Sensing, Health Geography, Spatial Statistics, Urban Studies, Environments, Ecological Modelling, Landscape Ecology |
| <b>Programming</b> | R, Python, CGA, Shell, LaTeX, Makrdown, Github  |
| <b>Expertise</b>   | ArcGIS, ENVI, Erdas Image, PostGIS, City Engine   |