

Curriculum Vitae - *Qiu Bingwen*

Ph.D., Research Professor

Key Laboratory of Spatial Data Mining & Information Sharing of Ministry of Education,
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China

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Education

Visiting scholar. Aug., 2009-Aug., 2010

Department of Geography, University of Cambridge

Cambridge, UK

Supervisor: Robert Haining

Ph.D. Sept, 2002-Jun, 2006

Institute of Geographic sciences and Natural Resources Research

Graduate school of Chinese Academy of Sciences

Beijing, China

Major: Cartology and GIS

Supervisor: Tianhe Chi

Dissertation title: *Multi-scale analysis of regional land use patterns and its change modeling*

Master of Science, Sept, 1997-Jun, 2000

Huazhong Agricultural University

Wuhan, China

Major: Environmental engineering

Thesis title: *Water & Land Resource analysis and Assessment in South Lake and Shizi Mountain area of Wuhan city Base on GIS*

Bachelor of Agronomy, Sept 1993-Jun 1997

Hunan agricultural University

Changsha, China

Major: Soil science

Research Interests

Exploring how vegetation and landscape are changing in subtropical and warm temperate areas using spatiotemporal analysis and remote sensing techniques.

Peer-Reviewed Journal Articles

1. **Qiu Bingwen**, Zou Fengli, Chen Chongcheng, Tang Zhenghong, Zhong Jiangping, Yan Xiongfei. Automatic mapping afforestation, cropland reclamation and variations in cropping intensity in central east China during 2001-2016. *Ecological Indicators*, 2018, 91: 490-502.
2. **Qiu Bingwen**, Huang, Yingze, Chen, Chongchen, Tang, Zhenghong, Zou, Fengli. Mapping spatiotemporal dynamics of maize in China from 2005 to 2017 through designing leaf moisture based indicator from Normalized Multiband Drought Index. *Computers and Electronics in Agriculture*, 2018, 153: 82-93.
3. **Qiu Bingwen**, Chen Gong, Tang Zhenghong, Lu Difei, Wang Zhuangzhuang, Chen Chongcheng. Assessing the Three-North Shelter Forest Program in China by a novel framework for characterizing vegetation changes. *ISPRS Journal of Photogrammetry and Remote Sensing* 2017; 133: 75-88.
4. **Qiu Bingwen**, Luo Yuhan, Tang Zhenghong, Chen Chongcheng, Lu Difei, Huang Hongyu, Chen Yunzhi, Chen Nan, Xu Weiming. Winter wheat mapping combining variations before and after estimated heading dates. *ISPRS Journal of Photogrammetry and Remote Sensing*, 2017, 123:35-46.
5. **Qiu Bingwen**, Lu, Difei, Tang, Zhenghong, Chen, Chongcheng, Zou, Fengli. Automatic and adaptive paddy rice mapping using Landsat images: Case study in Songnen Plain in Northeast China. *Science Of The Total Environment*, 2017, 598, 581-592.
6. **Qiu Bingwen**, Zhang Ke, Tang Zhenghong, Chen Chongcheng, & Wang, Zhuangzhuang. Developing soil indices based on brightness, darkness, and greenness to improve land surface mapping accuracy. 2017, *GIScience & Remote Sensing*, 1-19.
7. **Qiu Bingwen**, Lu Difei, Tang Zhenghong, Song Dunjiang, Zeng Yuhuai, Wang Zhuangzhuang, Chen Chongcheng, Chen Nan, Huang Hongyu, Xu Weiming, Mapping cropping intensity trends in China during 1982–2013, *Applied Geography*, 2017, 79: 212-222.
8. **Qiu Bingwen**, Zhong Jiangping, Tang Zhenghong, Feng Min, Chen Chongcheng, Wang Xiaoqin. Greater phenological sensitivity on the higher Tibetan Plateau: new insights from weekly 5km EVI2 datasets. *International Journal of Biometeorology*, 2017, 61(5), 807-820.
9. **Qiu Bingwen**, Liu Zhe, Tang Zhenghong, Chen Chongcheng. Developing indices of temporal dispersion and continuity to map natural vegetation. *Journal of Ecological Indicators*, 2016, 64:335-42.
10. **Qiu Bingwen**, Wang Zhuangzhuang, Tang Zhenghong, Liu Zhe, Lu Difei, Chen Chongcheng, Chen Nan. A multi-scale spatiotemporal modeling approach to explore vegetation dynamics patterns under global climate change. *GIScience & Remote Sensing*, 2016, 5: 596-613.
11. **Qiu Bingwen**, Wang Zhuangzhuang, Tang Zhenghong, Fan Zhanlong, Li Weijiao. Automated cropping intensity extraction from isolines of wavelet spectra. *Computers and Electronics in Agriculture*, 2016, 125, 1-11.
12. **Qiu Bingwen**, Fei Min, Tang Zhenghong. A simple smoother based on continuous wavelet transform: comparative evaluation based on the fidelity, smoothness and efficiency in phenological estimation. *International Journal of Applied Earth Observations and Geoinformation*. 2016, 47:91-101.

13. **Qiu Bingwen**, Qi Wen, Tang Zhenghong, Chen Chongcheng, Wang Xiaoqin. Rice cropping density and intensity lessened in Southeast China during the 21st century. *Journal of Environmental Monitoring and Assessment*. 2016, 188,1-12.
14. **Qiu Bingwen**, Li Weijiao, Tang Zhenghong, Chen Chongcheng, Qi Wen. Mapping paddy rice areas based on vegetation phenology and surface moisture conditions. *Journal of ecological indicators*, 2015, 56: 79-86.
15. **Qiu Bingwen**, Qi Wen, Tang Zhenghong, Chen Chongcheng, Wang Xiaoqin. Rice cropping density and intensity lessened in Southeast China during the 21st century. *Journal of Environmental Monitoring and Assessment*. 2016,188:1-12.
16. **Qiu Bingwen**, Fei Min, Tang Zhenghong. A simple smoother based on continuous wavelet transform: comparative evaluation based on the fidelity, smoothness and efficiency in phenological estimation. *International Journal of Applied Earth Observations and Geoinformation*. 2016, 47:91-101.
17. **Qiu Bingwen**, Qi Wen, Chen Chongcheng, Li Weijiao. Relationship between spatial heterogeneity and wavelength in multi-sensor airborne images. *Geo-Spatial Information Science*, 2015, 18(1):56-64.
18. **Qiu Bingwen**, Fan Zhanling, Zhong Ming, Tang Zhenghong, Chen Chongcheng. A new approach for crop identification with wavelet variance and *JM* distance. *Journal of Environmental Monitoring and Assessment*, 2014, 186(11):7929–7940.
19. **Qiu Bingwen**, Li Weijiao, Zhong Ming, Tang Zhenghong, Chen Chongcheng. Spatiotemporal analysis of vegetation variability and its relationship with climate change in China. *Geo-Spatial Information Science*, 2014, 17(3): 170-180.
20. **Qiu Bingwen**, Zhong Ming, Tang Zhenghong, Wang Chongyang. A new methodology to map double-cropping croplands based on continuous wavelet transform. *International Journal of Applied Earth Observation and Geoinformation*. 2014, 26:97-104.
21. **Qiu Bingwen**, Zeng Canying, Chen Chongcheng, Tang Zhenghong, Sui Yinpo. Characterizing landscape spatial heterogeneity in multisensor images with variogram models, *Journal of Chinese Geographical Science*, 2014, 24(3): 317-327.
22. **Qiu Bingwen**, Zhong Ming, Tang Zhenghong, Chen Chongcheng. Spatiotemporal variability of vegetation phenology with reference to altitude and climate in the subtropical mountain and hill region, China. *Journal of Chinese Science Bulletin*, 2013, 58(23): 2883-2892.
23. **Qiu Bingwen**, Zeng Canying, Tang Zhenghong, Chen Chongcheng. Characterizing Spatiotemporal Non-Stationarity in Vegetation Dynamics in China Using MODIS EVI Dataset. *Journal of Environmental Monitoring and Assessment*, 2013, 185(11): 9019-9035.
24. **Qiu Bingwen**, Zeng Canying, Tang Zhenghong, Li Weijiao, Aaron Hirsh. Identifying Scale-location Specific Control on Vegetation Distribution in Mountain-hill Region. *Journal of Mountain Science*, 2013, 10(4): 541-552.
25. **Qiu Bingwen**, Zeng Canying, Tang Zhenghong. Multilevel Assessment of Spatiotemporal Variability of Vegetation in Subtropical Mountain-hill Region. *Journal of Mountain Science*. 2013, 10(6): 1028-1038.
26. **Qiu Bingwen**, Zeng Canying, Chen Chongcheng, Zhang Chungui, Zhong Ming. Vegetation distribution pattern along altitudinal gradient in subtropical mountainous and hilly River basin, China, *Journal of Geographical Sciences*, 2013, 23(2): 247-257.

27. **Qiu Bingwen**, Zeng Canying, Chen Chongcheng, Comparative spatio-spectral heterogeneity analysis using broadband and hyperspectral airborne images, *Geo-Spatial Information Science*, 2013, 16(2):83-90.
28. **Qiu Bingwen**, Zhong Ming, Zeng Canying, Tang Zhenghong, Chen Chongcheng, Effect of topography and accessibility on vegetation dynamic pattern in mountain-hill region, *Journal of Mountain Science*, 2012, 9(6), 879-890.
29. Liu zhe, **Qiu Bingwen**, Wang Zhuangzhuang, Spatiotemporal analysis of vegetation cover in loess plateau during the period of 2001-2014. *Remote sensing for land & resources*, 2017, 29(1): 192-198.(In Chinese)
30. Feng Min, Li Zaiming, **Qiu Bingwen**, Spatiotemporal difference in agricultural crops and natural vegetation during the early 21st century, *Remote sensing technology and application*, 2016, 31(5): 1003-1012.(In Chinese)
31. Qi Wen, **Qiu Bingwen**, Fan Zhanling. The spatial distribution pattern of vegetation cover in Min-Gan region and its driving forces, *Yangtze River scientific research institute*, 2016, 31(12):138-143.(In Chinese)
32. Fan Zhanling, **Qiu Bingwen**, Zeng Canying. Vegetation cover distribution pattern and its influencing factor in Jiangxi province, *Remote sensing information*, 2015, 30(5): 57-61.(In Chinese)
33. Li Weijiao, **Qiu Bingwen**, Zen Canying, The multi-level model of vegetation cover distribution in Fujian province, *Journal of Huaqiao University (Nature Sciences)*, 2014, 35(5): 513-518.(In Chinese)
34. WANG Chongyang, **Qiu Bingwen**, LONG Rong, GAO Jianyang. Land Use Layout Based on Ontology Case-Based and Rule-Based Reasoning. *Resources Science*, 2013, 35(2):353-361.(In Chinese)
35. ZHONG Ming, **Qiu Bingwen**, GAO Jianyang, LONG Rong, Wu Jianwei. Method of general land use planning based on ontology knowledge base. *Journal of Huaqiao University (Nature Sciences)*, 2013, 34(2):156-161. (In Chinese)
36. **Qiu Bingwen**, Sui Yinpo, Chen Chongcheng. Identifying the characteristic scale of typical landscapes at Mountainous Area in South China, *Journal of natural resource*, 2010, 25(11):1970-1978. (In Chinese)
37. **Qiu Bingwen**, Su Zanyou, Chen Chongcheng. Multi-scale linkages between topographic attributes and vegetation indices in Wuyi Mountain Reserve Area Based on Wavelet Transform, 2009, 28(9):1915-1920 (In Chinese)
38. Su Zanyou, **Qiu Bingwen**, Chen Chongcheng, Study on Extraction of Landscape Information Based on the Object-oriented Classification Techniques, *Remote Sensing Information*, 2009, 2: 42-46 (In Chinese)
39. **Qiu Bingwen**, Chen Chongchen. Land use change simulation model based on MCDM and CA and its application, *Journal of Geography*, 2008, 63(2):165-174(In Chinese)
40. **Qiu Bingwen**, Gao Jianyang, Chen Chongchen, Sui Yinbo, Cui Hongsheng, Scale effect analysis of driving forces of agricultural land use change in mountain area of middle part of Fujian province. *Journal of Huaqiao University*, 2008, 29(1):124-128 (In Chinese)
41. **Qiu Bingwen**. Multi-scale spatial Characterization of land-use patterns of Luoyuan County in Northeast Fujian province. *Progress in Geography*, 2008, 27(1):82-89 (In Chinese)
42. **Qiu Bingwen**. Modeling spatial distribution of land use taking account of spatial autocorrelation,

Journal of Natural Resources, 2007,22(2):311-320 (In Chinese)

43. **Qiu Bingwen**. Scale effect analysis of driving forces of land-use patterns of Longhai County in Fujian province, Journal of Natural Resource, 2007, 22(1):70-78 (In Chinese)
44. **Qiu Bingwen**, Qinmin Wang. Spatial autocorrelation analysis of multi-scale land use in Fujian province, 2007, 22(2):311-320 (In Chinese)
45. **Qiu Bingwen**, Chi Tianhe, Qinmin Wang. Using GIS and multi-criteria evaluation for fruit trees suitability assessment. Transactions of the Chinese Society of Agricultural Engineering(Chinese Journal), 2005, 21(6):96-100
46. **Qiu Bingwen**, Chi Tianhe, Qinmin Wang et al. Agricultural Land Suitability Assessment System Based on GIS, Transactions of the Chinese Society of Agricultural Engineering(Chinese Journal),2005, 21:167-170(In Chinese)
47. **Qiu Bingwen**, Chi Tianhe, Qinmin Wang et al. Application of GIS and its prospects in Land suitability assessment(Chinese Journal), 2004(5):20-23 (In Chinese)
48. **Qiu Bingwen**, Chi Tianhe, Qinmin Wang et al. Digital Fujian and Digital Agriculture, Mapping standardization(Chinese Journal), 2004, 5 (In Chinese)
49. **Qiu Bingwen**, Zhou Yong, Li Xueyuan. The Current Status and Future Trend of Eutrophication of the South Lake and its Comprehensive Control Countermeasures, Journal of Huazhong Agricultural University(Chinese Journal), 2000, 19(4):350-352 (In Chinese)
50. **Qiu Bingwen**, Zhou Yong, Li Xueyuan. Application of GIS , its problems and prospects in land resource and ecological environment, Journal of Huazhong Agricultural University (Chinese Journal), 1999, 18(4): 348-351 (In Chinese)

Publications in Conference Proceedings

1. **Qiu Bingwen**, Feng Min, Zhong Ming, Tang Zhenghong, Chen Chongcheng. Spatiotemporal Vegetation Dynamic Patterns in a Subtropical Humid Region of China. Proceedings of 2015 Second IEEE International conference on Spatial data mining and Geographical knowledge services, Fuzhou, pp:93-98
2. Wang Zhuangzhuang, **Qiu Bingwen**, Fan Zhanling. Scale-location Specific Analysis of Temporal Vegetation Coverage in China. Proceedings of 2015 Second IEEE International conference on Spatial data mining and Geographical knowledge services, Fuzhou, pp:119-124
3. **Qiu Bingwen**, Zeng Canying, Long Rong, Chen Chongcheng, Tu Xiaoyang. Quantifying spatial heterogeneity of Coniferous trees in ATM, CASI and Eagle airborne images. Proceedings of 2011 1st International conference on Spatial data mining and Geographical knowledge services, Fuzhou (EI), pp:198-203
4. **Qiu Bingwen**, Sui Yinbo, Chen Chongcheng, Tu Xiaoyang. Identification of Optimal spatial resolution with local variance, semivariogram and wavelet method. Proceedings of Accuracy 2010, Leicester, 353-356
5. **Qiu Bingwen**, Chen Chongcheng, Wu Xiaozhu. Effect of spatial scale on regional land-use pattern analysis in different classification system and data sources, Geoinformatics 2009, Virginia, USA, in Washington D.C.
6. **Qiu Bingwen**. Scale effect analysis of driving forces of agricultural land distribution pattern and its changes—taking Jianou County of Fujian province as an example. The 6th Seminar on

- Cartography and GIS of China, 2008, China, Xinjiang (In Chinese)
7. **Qiu Bingwen**. Scale effect analysis of driving forces of Arable Land of Fujian province, Geoinformatics 2007, Nanjing
 8. **Qiu Bingwen**, Qinmin Wang, Chi Tianhe. Modeling spatial distribution of land use taking account of spatial autocorrelation, Geoinformatics 2006, Wuhan
 9. **Qiu Bingwen**. Development and Application of an Agricultural Geographic Information System of Fujian Southern area. IEEE International Geoscience and Remote Sensing Symposium proceedings, 2005, Seoul, Korea
 10. **Qiu Bingwen**. Dynamic Evaluation of Regional Land Resource Suitability Based on GIS. IEEE International Geoscience and Remote Sensing Symposium proceedings, 2005, Seoul, Korea
 11. **Qiu Bingwen**. Digital Agriculture under the Framework of Digital Province. IEEE International Geoscience and Remote Sensing Symposium proceedings, 2005, Seoul, Korea
 12. **Qiu Bingwen**, Chi tianhe, Wang qinmin, wang xiaoqin et al. Suitability Evaluation of fruit Trees in Fujian Southern Mountain Areas Based on DEM and GIS using a Multi-Criteria Evaluation approach, IEEE International Geoscience and Remote Sensing Symposium proceedings, 2004, anchorage
 13. **Qiu Bingwen**, Zhou Yong, Li Xueyuan. Application of Improved neural network model in evaluation of Lake's eutrophication, The sixth National conference on Computer application, 2002, publishing company of Beijing University of Posts and Telecommunications, 5-18—5-21 (In Chinese)

Presentations

2018. 2018. Spatiotemporal dynamics of multi-dimensional attributes of crop land in China. China Engineering Science and Technology Forum - Smart Agriculture Forum. Beijing, China.
2018. Spatiotemporal dynamics of cropping intensity in China since the 1980s. Annual conference of China Association for Geographic Society. Xian, China.
2018. Assessing the Three-North Shelter Forest Program in China. Annual conference of China Association for Geographic Society. Xian, China.
2017. Annual progress of geographic processes modeling and analysis in the key Laboratory of Spatial Data Mining & Information Sharing of Ministry of Education. Fuzhou, China.
2017. Vegetation dynamic patterns and its applications on the efficacy of the Three-North Project. Annual conference of China Association for Geographic Information Science and Methodology. Changsha, China.
2017. Remote sensing time series methods in vegetation mapping. International Conference on Geo-informatics in Sustainable Ecosystem and Society. Wuhan, China
2016. A multi-scale spatiotemporal modeling tool for exploring vegetation changes in the context of global change. Annual conference of China Association for Geographic Information Science and Methodology. Shenzhen, China.
2016. A novel approach for rice mapping and its applications to primary rice cropping areas in China. The 33rd International Geographical Congress. Beijing, China.
2016. Developing indices of temporal dispersion and continuity to map natural vegetation. The 33rd International Geographical Congress. Beijing, China.
2015. Vegetation mapping method based on key phenological stages. The 3rd Space Information

Intelligence Service Seminar. Wuhan, China.

2015. Temporal classification algorithms taking account of intra-class variability. Urban Space Analysis Seminar organized by China branch of International Urban Ecology Society, Xiamen, China.

2014. A new approach for crop identification with wavelet variance and JM distance. International conference of Geo-Process Modeling in VGE. Hong Kong, China

2014. A New Methodology to Map Double-Cropping Croplands Based On Continuous Wavelet Transform. Academic annual meeting organized by the theory and methodology of the Geographic Information Industry Association. Xuzhou, China

2013. Vegetation phenology and its relation to elevation and climate in subtropical mountain and hill region. 35th international symposium on remote sensing of environment. Beijing, April, China.

2013. Multilevel analysis of spatio-temporal variability of vegetation in subtropical mountainous and hilly region. 35th international symposium on remote sensing of environment. Beijing, April, China.

2012. Comparative spatio-spectral heterogeneity analysis using broadband and hyperspectral airborne images. Geoinformatics 2012, Hong Kong, June, China.

2011. Quantifying spatial heterogeneity of Coniferous trees in ATM, CASI and Eagle airborne images. First IEEE international conference on spatial data mining and geographical knowledge services (ICSDM 2011). Fuzhou, July, China.

2010. Identification of Optimal spatial resolution with local variance semivariogram and wavelet method. Accuracy 2010 symposium, July, Leicester, UK.

2009. Landscape Classification of Wuyi Mountain Reserve area using SPOT 5 images. Annual report meeting with partner at University of West Hungary under the inter-government cooperation framework.

2008. Scale effect analysis of driving forces of agricultural land distribution pattern and its changes—taking Jianou County of Fujian province as an example. The 6th Seminar on Cartography and GIS of China, 2008, China, Xinjiang

2007. Effect of spatial scale on regional land-use pattern analysis in different classification system and different data source, International Workshop of GIS, Sept 14, 2007, Beijing, China

2007. Scale effect analysis of driving forces of Arable Land of Fujian province, National annual conference of Natural resources, July 28, 2007, Xian

2006. Scale effect analysis of driving forces of land-use patterns in southeast of Fujian province, National conference of cartology and GIS, Oct 31, 2006. Wuhan.

2006. Modeling spatial distribution of land use taking account of spatial autocorrelation, Oct 29, 2006.

2006. Multi-scale analysis of regional land use patterns and its change modeling, Fuzhou University, Fuzhou, Sep. 8, 2006.

2005. Brief introduction and demonstration of Zhangzhou Agricultural Geographic Information System, Fuzhou University, Fuzhou, Feb. 17, 2005.

2004. Suitability Evaluation of fruit Trees in Fujian Southern Mountain Areas based on DEM and GIS using a Multi-Criteria Evaluation approach. The 4th international colloquium on land use and land cover change and environmental issues in Asia, Beijing, Oct. 15, 2004.

2004. Study on Technology and Methods of Decision Support for the sustainable land use management, Institute of Geographic sciences and Natural Resources Research, Beijing, July 10, 2004.

2003. Application of remote sensing to agricultural resource monitoring, Institute of Geographic sciences and Natural Resources Research, Beijing, Nov 7, 2003.
2002. Standard and criterion of Digital Fujian, Fujian Agricultural Department, Fuzhou, June 27, 2002.
2002. Requirement and technology road of data integration of Digital Fujian, Fujian environmental Department, Fuzhou, May 15, 2002.
1998. Introduction of PC ARC/INFO, Huazhong Agricultural University, Wuhan, June 25, 1998.

Employment experience

Research Professor, 2015-present, National Engineering Research Centre of Geospatial Information Technology, Key Laboratory of Data Mining & Information Sharing of Ministry of Education, Fuzhou University, Fuzhou 350002, Fujian, China

Associated researcher, 2009-2014, Key Laboratory of Data Mining & Information Sharing of Ministry of Education, Spatial Information Research Center of Fujian Province, Fuzhou University, Fuzhou 350002, Fujian, China

Research Associate, July 2003-2007, Key Laboratory of Data Mining & Information Sharing of Ministry of Education, Spatial Information Research Center of Fujian Province, Fuzhou University, Fuzhou 350002, Fujian, China

Research Assistant, July 2000-June 2003, College of Information, Fuzhou University, Fuzhou 350002, Fujian, China

Research Trainee, Sep.1997-June 2000, College of Resource and Environment, Huazhong Agricultural University, Wuhan 430070, Hubei province, China

Research experience

2018-2021 (¥753,000RMB), ‘Time series change detection approach of remote sensing images oriented on the evolution processes of land surface biophysical parameters and the Three North project assessments’, PI, fund by National Natural Science Foundation of China.

2015-2018 (¥880,000RMB), ‘Developing an anti-disturbance automatic method for deriving agricultural cropping pattern’, PI, fund by National Natural Science Foundation of China.

2017-2019 (¥150,000RMB), ‘Temporal pattern identification taking account of driving forces’, PI, fund by Fujian science and technology department.

2014-2016 (¥30,000RMB), ‘Automatic high precision remote sensing monitoring technique with for extracting cropping intensity’, PI, fund by National Human Resources and Social Security Ministry of China.

2012-2014 (¥100,000RMB), ‘Dynamic changes and its response to disturbance of mountain vegetation in Fujian and Jiangxi provinces’, PI, fund by Fujian science and technology department.

2010-2013 (¥350,000RMB), ‘Research on the vegetation dynamics of mountainous and hill regions taking into account of spatiotemporal non-stationarity’, PI, fund by National Natural Science Foundation of China.

July 1, 2009-2011 (¥150,000RMB), ‘Construction and Application of Land use support system based on ontology and Computational Intelligence,’ PI, fund by Fujian science and technology department.

Octo. 1, 2009-2011 (¥25,000RMB), ‘Characteristic scale identification of southern mountainous area based on multi-sensor remote sensing images,’ PI, fund by Fuzhou University.

July 1, 2006-Sept. 30, 2008 (¥100,000RMB), ‘Research on quantitative analysis and countermeasure alteration of agriculture land use structure Caused by Long-term draught in Fujian province from 2003 to 2004,’ PI, fund by Fujian science and technology department,

July 1, 2007- Sept. 30, 2009 (¥50,000RMB), ‘Research on spatial scale problem of regional land use based on fractal theory and spatial Geometry,’ PI, fund by Fujian science and technology department.

July 1, 2005-Dec. 30, 2008 (¥1 million RMB), ‘Research on multi-scale agricultural information service based on GIS, Remote sensing and Internet,’ with Wang X.Q., fund by Ministry of Science and technology of the P.R. China.

July 1, 2005-Dec. 30, 2008 (¥1/2 million RMB, approximately \$65,000USD), ‘Wildlife Management and Biodiversity Monitoring based on Remote Sensing and Open Geospatial (OGC) Standards and Guidelines,’ with Chen C.C., fund by Ministry of Science and technology of the P.R. China.

July 1, 2005-Sept. 30, 2007 (¥200,000RMB), ‘Remote sensing monitoring of Spatial-temporal evolution of mangrove wetland and its information TUPU demonstration,’ Co-PI, with Lan Z.R., fund by Fujian science and technology department.

Jan. 1, 2003—Dec. 30, 2004 (¥2 million RMB), ‘Regional and professional large application system base on GIS, RS and GPS,’ with Prof. Wang Q.M., fund by Ministry of Science and technology of the P.R. China.

July 1, 2001-Dec. 30, 2004 (¥150 million RMB), ‘Key project of Digital Fujian: establishment of government information sharing platform and information resource integration’, with Prof. Wang Q.M., fund by Fujian development and innovation department.

July 1, 2000-Sept. 30, 2003 (¥400,000RMB), ‘Coast environment regulation and decision support system in Fujian province,’ with Prof. Wang Q.M., fund by Fujian science and technology department.

July 1, 1999-Dec. 30, 2000 (¥40,000RMB), ‘Research on suburb land resource and ecological environment based GIS,’ with Prof. Zhou Y. (Huazhong Normal University), fund by State key Lab. of Information Engineering in surveying mapping and Remote sensing of Wuhan University.

Teaching experience

3-year graduate program: Spatial data analysis

3-year graduate program: Professional English

3-year graduate program: Regional analysis and planning

4-year undergraduate program: Theory and application of Geographic Information Systems

Supervision of 25 graduate students on GIS and RS research

Software Registration

Vegetation phenological monitoring software. Chinese copyright protection center, 2017

Remote sensing vegetation change detection system based on wavelet variance. Chinese copyright

protection center, 2014

Automatic mapping system of cropping intensity, Chinese copyright protection center, 2014

Land use planning system based on ontology and computational intelligence, Chinese copyright protection center, 2014

Zhangzhou agricultural Geographic Information system, Chinese copyright protection center, 2006

Awards and Distinction:

2018, the 13th excellent academic paper in natural science of Fujian province, Awarded by Bingwen Qiu

2016. Excellence dissertation of Fujian province, China. Title: Exploring spatiotemporal dynamics of key phenological stages of rice and winter in China. Awarded by Min Feng. Supervisor: Bingwen Qiu

2016. Excellence dissertation of Fujian province, China. Title: Change detection on land use intensity based on time series imageries. Awarded by Zhe Liu. Supervisor: Bingwen Qiu

2015 Excellence dissertation of Fujian province, China. Title: Mapping staple crops based on vegetation indexes time-series. Awarded by Weijiao Li. Supervisor: Bingwen Qiu

2013 The third first prize of Science Progress Award of Fujian Province (2013-J-3-017-1), Rank 1

2005 The first prize of Science Progress Award of Fujian Province (2005-1-006-8), main contributor

2002 Advanced unit of Key item construction in Fujian province, main contributor

2001 New Long March commando in Fujian province, main contributor

2000 Excellence dissertation of Hubei province, China. Title: Water & Land Resource analysis and Assessment in South Lake and Shizi Mountain area of Wuhan city Base on GIS. Awarded by Bingwen Qiu. Supervisor: Yong Zhou & Xueyuan Li.

Language

English (Fluent in reading, speaking, and writing)

Chinese (Native Language)

Memberships in professional organizations

Committee member, Academic Committee of Geographical information analysis in Geographic Society of China

Committee member, China Society of spatial statistics, Spatial Statistics Branch of Field Statistical Research Association

Council member, Geographic Society of Fujian province.

Member, China Society of Natural Resources

Member, Geographic Society of China

Member, Remote Sensing Society of Fujian Province

Member, Society for Urban Ecology China chapter