

个人简介



姜小三，男，博士，1967年10月1日生，籍贯江苏省泰州市人，2014年9月挂职新疆农业大学草业与环境学院副院长（分管研究生、实验室平台等，聘期三年）。1987年9月至1991年7月南京农业大学土壤与植物营养专业本科毕业，获农学学士学位；1991年8月至2000年12月，先后担任南京农业大学资源与环境科学学院团委书记、院办公室主任等职（1996年12月晋升助理研究员）；2001年1月-2010年7月，担任南京农业大学资源与环境科学学院土壤学系副系主任、党支部副书记（2000年9月-2003年7月，南京农业大学在职硕士研究生毕业，土壤资源与信息技术，获土壤学硕士学位；2003年9月至2008年7月南京农业大学在职博士研究生毕业，土壤资源与信息技术，获土壤学博士学位；2001年12月，转聘讲师，2005年12月晋升副教授，2006年4月环境科学硕士生导师）；2010年7月至2014年9月，南京农业大学土壤与生态学系系主任，南京农业大学资源环境信息工程中心主任，副教授。2012年5月-2013年5月江苏省教育厅资助赴美国普度大学国家农业部土壤侵蚀实验室，访问学者，客座研究员。中国自然资源学会自然资源信息系统专业委员会委员，国际地圈生物圈计划中国委员会（CNC-IGBP）RS/GIS工作组成员、江苏省土壤学会理事、卫生部卫生地理信息专业委员会委员等。主要从事资源环境信息系统领域的教学、科研与科技服务工作。

主要研究方向：资源环境信息系统，环境与健康评价。

硕士生招收方向：1.环境科学（环境信息系统），理学硕士；2.土壤学（土壤资源与信息技术），农学硕士；3.地图学与地理信息系统（资源环境信息系统），理学硕士

教学方面，主讲课程：主讲地理信息系统、应用遥感技术、农业资源信息系统、环境信息系统、土壤资源调查与评价、GIS 软件应用、遥感数字图像处理等课程，2009 年，2013 年两次获得南京农业大学教学质量综合评价优秀。主编教材：普通高等教育“十二五”规划教材《地理信息系统实验》和面向 21 世纪课程教材《农业资源信息系统实验》，参编全国高等农林院校“十五”规划教材《土壤资源调查与评价》、全国高等农林院校“十一五”规划教材：《农业资源信息系统》。两次被评为南京农业大学黄瑞彩教授奖教金一等奖。教研与教改方面，获得国家级、省级等各类教学成果奖 11 项：国家教育部优秀教学成果二等奖（5/10）、江苏省优秀教学成果特等奖（5/10）、江苏省优秀教学成果二等奖（5/10）、南京农业大学优秀教学成果特等奖（5/10）、南京农业大学优秀教学成果一等奖（5/10）、江苏省精品课程（2/10）、两次获得南京农业大学黄瑞彩奖教金一等奖、全国大学生创业大赛一等奖优秀指导教师、南京农业大学大学生课外活动与社会实践优秀指导教师等。

科研与科技服务方面，先后承担国家自然科学基金“定量监测水土流失新方法的研究”（40171060）、土地利用-覆被面积变化对溪流底溪动物完整性影响研究（40301047）、水利部专项淮河流域水土保持

遥感数据处理与评价项目（2005-2007）、国土资源部与江苏省政府的“省部共建项目”江苏省无公害农产品产地土壤环境综合评价与对策研究、科技部基础专项子课题（2008FY110600）“江苏省北半部土系调查与《中国土系志·江苏卷》编制”、浙江省重点科技攻关项目（2005C22072）浙江杭州湾湿地生态信息数据库与管理系统的研制、国家自然科学基金重大国际合作研究项目“中日农业小流域氮素循环对水质影响的比较研究”子课题“长江流域农业典型小流域氮素循环对水质影响”（40721140018-1）、江苏省水利厅项目“江苏省水土流失定量监测与监测系统的完善研究”、科技部专项中俄科考项目“中国北方及其毗邻地区土壤等自然地理环境综合科学考察和调查”、水利部淮河委员会“淮河流域水政/水土保持遥感动态监测系统开发”、卫生部行业支撑项目“淮河流域生态环境与肿瘤疾病发生的相关性”、中国农业科学院“北京延庆县农业面源污染定量监测研究”、江苏省水利厅“水土流失定量监测系统的完善研究”、江苏水利厅“江苏省 2001-2007 年水土流失定量监测研究”、水利部淮河水利委员会淮河流域水土保持监测规划编制、水利部长江委员会“长江流域上游土壤侵蚀监测技术与方法研究”、国家科技部“国家环境小卫星遥感动态监测系统生态环境分系统建设”、卫生部中国疾病预防控制中心“环境与健康综合监测平台建设”、水利部长江委员会“南水北调工程水源区丹江水库流域土地利用遥感动态监测”、中国林业科学院亚热带研究所“浙江省杭州湾生态信息监测数据库与网络地理信息系统”等科研项目 20 余项。科研进展顺利，取得了预期的成果。获得水利部淮

河委员会科学技术奖一等奖 1 项 (3/10)、水利部淮河委员会科学技术奖二等奖 1 项 (2/10)、安徽省科技进步三等奖 1 项 (3/10)。在土壤学报等核心期刊发表 40 多篇学术论文 (主要代表作见附表)。成功申请并获得"淮河流域水政/水土保持卫星遥感动态监测系统"等国家软件著作权 2 个。面向国家需求和社会需求,积极开展科技服务:积极推进农业资源环境调查与管理、湿地生态遥感调查与监测、环境与健康评价等领域信息化、智能化,参与政府行业主管部门信息化应用系统平台的构建,为国家与省级行业主管部门提供科技咨询与科学决策信息服务。

联系方式:

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附录:近年来主要代表作目录

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Specialty: Soil science in agronomy major

Direction of Research: Agricultural Resources and Environment

Information System

EDUCATION

2012-2013 Visiting Scholar, in Soil Information System, USDA-ARS

Soil Erosion Research Laboratory /Purdue University, USA

2003-2008 Ph.D. in Soil Science, Nanjing Agricultural
University

2000-2003 M.S. in Soil Science, Nanjing Agricultural University

1999-2000 Visiting Scholar, in Remote Sensing & Geographic
Information System, Nanjing University

1987-1991 B.S. in Soil and Plant Nutrition, Nanjing Agricultural
University

AWARDS AND HONORS

2010 Award for Excellent Guide Teacher, the First Class Award of the
Contest of National Undergraduates Entrepreneurial Designs, *Chinese
Association of Higher Education & Chinese Copyright Association*

2009 The Second Award, State-level Prize for Excellent Education and Teaching Achievement (fifth participant), *Modes and Practices of Cultivating Undergraduate of Agricultural Resources and Environment Sciences, Combined with Scientific Research, Teaching Activities and Industrialization*, Ministry of Education of the People's Republic of China.

2008 Special-class Award, Provincial Prize for Excellent Education and Teaching Achievement (fifth participant), *Department of Education of Jiangsu Province*

2008 Special-class Award, the Prize for Excellent Education and Teaching Achievement (fifth participant), *Nanjing Agricultural University*

2008 Award for Excellent Guide Teacher of Undergraduate Extracurricular Activities and Social Practices, *Nanjing Agricultural University*

2007 The First Award for Science and Technology, *Research and Application of new methods on monitoring Soil Erosion Quantitatively*, The Huaihe Water Resources Commission of the Ministry of Water Resources of the People's Republic of China

2007 The Second Award for Science and Technology, *Development of Water and Soil Conservation Information Management System for the Huaihe River Basin*, Huaihe Water Resources Commission of the Ministry of Water Resources of the People's Republic of China

2007 The Third Award for Progress in Science and Technology,
*Research and Application of New Methods of Monitoring Soil Erosion
Quantitatively by Based on RS, GIS and GPS, Department of Science and
Technology of Anhui Province*

2006 Owner of Software Copyright Registration, *Water and Soil
Conservation Integrated Information Management System of the Huaihe
River Basin, State Copyright Bureau*

2005 First Award, Provincial Prize for the Best Teaching Materials by the
Book of *Survey and Evaluation of Soil Resources* (Second participant),
Department of Education of Jiangsu Province

2005 Second Award, Provincial Prize for Excellent Education and
Teaching Achievement (fifth participant), *Department of Education of
Jiangsu Province*

2005 Special-class Award, the Prize for Excellent Education and Teaching
Achievement (fifth participant), *Nanjing Agricultural University*

2004 First Award, Huang Rui-cai Prize for Best Teaching and
Researching on Soil and Plant Nutrition, *Nanjing Agricultural University*

2001 First award, Huang Rui-cai Prize for Best Teaching and
Researching on Soil and Plant Nutrition, *Nanjing Agricultural University*

WORKING EXPERIENCES

Sept., 2014- **Vice-Dean,** College of Grassland and Environment
Sciences, *Xinjiang Agricultural University*

2010-2014 Associate Professor, Dean of Department of Soil Sciences and Ecology, College of Resources and Environmental Sciences, Nanjing Agricultural University; Chief of Center of Resources and Environmental Information Engineering, *Nanjing Agricultural University*

2006-2010 Associate Professor, Vice-Dean of Department of Soil Sciences, College of Resources and Environmental Sciences, *Nanjing Agricultural University*

2000-2006 Lecturer, Vice-Dean of Department of Soil Sciences, College of Resources and Environmental Sciences, *Nanjing Agricultural University*

1996-2000 Lecturer, Chief of the Office of College of Resources and Environmental Sciences, *Nanjing Agricultural University*

From July,1991-1996 Assistant, Undergraduate Instructor of College of Resources and Environmental Sciences, *Nanjing Agricultural University*

TEACHING EXPERIENCES

Courses Taught:

Survey and Evaluation of Soil Resources (the required course for undergraduate, the core course of the discipline of Agricultural Resources and Environment)

Geographic Information System (GIS, the elective course for undergraduate)

Remote Sensing (RS, the elective course for undergraduate)

Agricultural Resources Information System(the elective course for undergraduate)

Environmental Information System (the elective course for undergraduate)

Applications of Software of GIS (the elective course for postgraduate)

Processing of Remote Sensing Image (the elective course for postgraduate)

WebGIS (the elective course of postgraduate)

Remote Sensing Image Interpretation (the elective course for postgraduate)

Seminar of Progress of Information Technology(the elective course for PhD candidate)

Students Supervised:

Advisor to 12 Master's Candidates, 2PhD Candidate and 32Undergraduate Students

REREACH EXPERIENCES

2013-2014Host, Funded by Research Institute of Subtropical Forestry, Chinese Academy of Forestry: **Construction of the Monitoring Comprehensive Information Management System of Wetland Ecosystem of Hangzhou Bay, Zhejiang Province.**

2010-2012Host, Funded by the Yangtze River Commission of the Ministry of Water Resources of the People's Republic of China :

Monitoring water and soil conservation of the upstream region of Danjiangkou reservoir by Remote Sensing

2010-2012 Host, Funded by Chinese Center for Disease Control and Prevention (CDC): **Constructing the Monitoring Comprehensive Information Management System of Environmental & Healthy of the Huaihe River Basin.**

2008-2012 Principle Investigator, Funded by Ministry of Science and Technology of the People's Republic of China : **Comprehensive scientific investigation on soil and other natural geographical environment in the North China and its adjacent region.**

2009-2010 Host, Funded by the Yangtze River Commission of the Ministry of Water Resources of the People's Republic of China : **Research on techniques and methods of monitoring soil erosion in the region of upstream of the Yangtze River Basin.**

2007-2011 Key Projects in the National Science & Technology Pillar Program during the Eleventh Five-Year Plan Period Funded by Ministry of Science and Technology of the People's Republic of China: **Research on the key technology and software of monitoring environment by the method of remote sensing and based on the Environmental Homemade Small Satellites (EHSS) No.1: Application of monitoring Soil Environment and evaluating it Based on EHSS and by the method of Remote Sensing.**

2007-2009 Principle Investigator, Funded by the key projects of the international cooperative research of the National Natural Science foundation of China (NSFC): **Comparative study on the effects of nitrogen cycle of Sino-Japanese agricultural watershed for water quality**

2008-2009 Host, Funded by the State Council of the People's Republic of China : **Study on the correlation of time-space distribution between environment pollution and tumor genesis in the Huaihe River Basin**

2008-2009 Host, Funded by the Huaihe Water Resources Commission of the Ministry of Water Resources of the People's Republic of China : **Constructing the System of dynamically monitoring information of waterworks reserve and soil conservation by Remote Sensing in the region of the Huaihe River Basin**

2008-2009 Host, Funded by the Department of Water Resources of Jiangsu Province: Improvement on **the system of monitoring soil erosion of Jiangsu province**

2004-2007 Host, Funded by the Huaihe Water Resources Commission of the Ministry of Water Resources of the People's Republic of China : **Processing and evaluation of remote sensing data of water and soil conservation of the Huaihe River Basin**

2004-2005 Principle Investigator, Funded jointly by the Department of Environmental Protection of Jiangsu Province and Ministry of Land and

Resources of the People's Republic of China: **Comprehensive evaluation and countermeasures of soil environment producing agricultural pollution-free products in the typical counties of Jiangsu province**

PUBLICATIONS:

1. **JIANG Xiaosan**. Editor of Experiment of Geographical Information System[M], *Beijing: National Defense Industry Press*, August 2014
2. ZHANG Wenmin, **JIANG Xiaosan***, WU Ming, SHAO Xuexin, ZHOU Bin. Spatial heterogeneity of soil organic carbon on the south coast of Hangzhou Bay[J]., *Acta Pedologica Sinica*, 2014,51(5):174~182
3. LU Lu, FU Xinyu, JIANG Dong, FU Jingying and **JIANG Xiaosan***. Assessment of Bioenergy Potential of Pistacia chinensis in China Based on GIS and Life Cycle Analysis[J]. *Journal of Geo-information Science*. 2014,16(1): 1-7
4. CHEN Jing-qiu, WANG Li, **Jiang Xiao-san***. Decision tree method application on land use classification using ALOS image in typical area of Yunnan-Guizhou Plateau [J]. *Journal of Nanjing Agricultural University*. 2013,36(6):45 -50

5. CHEN Dan, **Jiang Xiaosan***. Study on rainfall erosivity in typical region along Danjiang river catchment [J]. *Journal of Nanjing Agricultural University*. 2012, 35(3): 138—1422.
6. ZHAI Meng-yuan, XU Xin-liang, **Jiang Xiaosan***. A Method on information Extraction of Winter fallow Fields in Middle and Lower Reaches of Yangtze River by Remote Sensing[J]. *Journal of Geo-information Science*. 2012,14(3): 389-397
7. GUO Yage, YU Xinfang, JIANG Dong, WANG Shikuan and **Jiang Xiaosan***. Study on Forest Classification Based on Object Oriented Technique[J]. *Journal of Geo-information Science*. 2012,14(4): 514-522
8. GAO Jian-feng, PAN Jian-jun , LIU Shao-gui , **Jiang Xiaosan***. Influence of land use change on topsoil organic carbon storage of paddy fields in Wujiang city[J]. *Journal of Geo-information Science*. 2011,13(2): 164-169
9. LI Lu, **Jiang Xiao-san***, SUN Yong-yuan. Geostatistics Based spatial interpolation method for study of rainfall erosivity: A case study of Jiangsu [J]. *Journal of Ecology and Rural Environment*. 2011, 27 (1): 88- 92
10. LI Lu, **Jiang Xiao-san***, Wang Xiao-xu. Comparative study on different rainfall erosivity models in Jiangsu Province [J]. *Science of Soil and Water Conservation*. 2010, 8(3):13-19

11. DU Wei, TI Chao-pu, **JIANG Xiao-san***, CHEN Guo-yan.
Balance and pollution potential of nitrogen in typical rice based
agricultural watershed of Yangtze River Delta Region [J]. *Journal of
Ecology and Rural Environment*. 2010, 26 (1): 9~14
12. TIAN Bo, TI Chao-pu, LIU Jin-chao, **JIANG Xiao-san***, WU
Ming. Study on dynamic landscape change in the wetland of Hangzhou
bay [J]. *Journal of Remote Sensing Information*. 2010, 1: 22~26, 47
13. TI Chao-pu, **JIANG Xiao-san***, LIU Jin-chao, YAN
Xiao-yuan. Application of GPS/ PDA Technique in Land Use Renewal
Investigation [J]. *Journal of Remote Sensing Information*. 2008, 6:58~62
14. LI Jing-feng, LIU Jin-chao, LIU You-zhao, **JIANG Xiao-san***.
Analysis of land use/cover change and its landscape pattern: the case of
Suining county, Xuzhou city [J]. *Jiangsu J. of Agr. Sci.*, 2008, 24 (4) :
510~515
15. BU Zhao-hong, **JIANG Xiao-san***, YANG Lin-zhang,
ZHANG Zu-xing. The Experiment of Optimum Methods of Renewing
GIS's Data By GPS Solid Survey in the Soil Erosion Fixed Quantity
Monitoring [J]. *Acta Pedologica Sinica*.2005, 42(5):712~719.
16. **JIANG Xiao-san***, Bu Zhao-hong, Yang Lin-zhang, Xia
Li-zhong, Pan Jian-jun. Integrated quantitative monitoring of soil loss and
water pollution: A case study of Fangbian valley in Jiangsu province [J].
Acta Pedologica Sinica. 2005, 42(4):529~536.

17. **JIANG Xiao-san***, PAN Jian-jun, LI Xue-lin. Organic carbon Density and storage in topsoil of Jiangsu and Spatial Analysis [J]. *Chinese Journal of Soil Science*. 2005, 36 (4): 501~503.
18. **JIANG Xiao-san***, PAN Jian-jun, YANG Lin-zhang, BU Zhao-hong. Methods of calculating and mapping soil erodibility k: A case study of Fangbian watershed of Nanjing [J]. *Soils*. 2004, 36 (2): 177~180
19. **JIANG Xiao-san***, Ni Shao-xiang, Pan Jian-jun, Ma Guo-bin, Wei Yu-chun. Influence of Temperature conditions for determination of soil moisture by TDR [J]. *Jiangsu J. of Agr. Sci.*, 2004, 4:102~104
20. **JIANG Xiao-san**. **Research and application of monitoring soil erosion quantitatively** [D]. Doctoral thesis of *Nanjing Agricultural University*. 2008.
21. **JIANG Xiao-san**. **A study on construction of soil resources database and information system of Jiangsu province** [D]. Master's thesis of *Nanjing Agricultural University*. 2003.
22. WANG Ai-hua, **JIANG Xiao-san**, PAN Jian-jun. Comparative Study between CBERS and TM Data in Water Pollution Remote Sensing Monitoring [J]. *Journal of Remote Sensing Information*. 2008, 2:46~50
23. XU Duan-yang , **JIANG Xiao-san**, PAN Jian-jun, LIAO Qi-lin, WU Xin-min, ZOU Song-mei. Research on the Method of Soil Environment Evaluation under Different Landform on a County-wide

Scale: A Case Study of Yizheng City, Jiangsu Province [J]. *Journal of Mountain Science*. 2007, 25(1): 45~53

24. HU Xu-li, **JIANG Xiao-san**, YANG Shu-jiang, PAN Jian-jun, GAO Tai-cheng. Study on Rainfall Erosivity in Funiu Mountainous Region Using Daily Rainfall Amounts Models [J]. *Research of Soil & Water Conservation*. 2006, 13 (3): 195~197

25. XU Duan-yang, **JIANG Xiao-san**, PAN Jian-jun, LIAO Qi-lin, ZOU Song-mei, WU Xin-min. Evaluation of soil environmental quality for Jiangdu County in Jiangsu Province [J]. *Journal of Safety and Environment*. 2005, 5 (6): 81~83.

26. LI Hai-ying, **JIANG Xiao-san**, PAN Jian-jun, LIAO Qi-lin, ZOU Song-mei, WU Xin-min. Distribution of Soil Cation Exchange Capacity—A Case Study of Lishui County, Jiangsu Province [J]. *Soils*, 2007, 39 (3): 443~447.

27. HU Xu-li, **JIANG Xiao-san**, YANG Shu-jiang, WU Di, PAN Jian-jun. Symbolized Model for Simulating Rainfall Erosion Ability in the West-Mountainous Area of Henan Province [J]. *Chinese Journal of Soil Science*. 2007, 38(1): 137~140

28. HU Xu-li, **JIANG Xiao-san***, PAN Jian-jun, YANG Shu-jiang, ZHANG Chun-ping. GIS-based spatial analysis and evaluation of soil erosion in the Huaihe River Basin [J]. *Soils*, 2007, 39 (3):404~407

29. GAO Jian-feng, **JIANG Xiao-san**, LIU Shao-gui, PAN Jian-jun. Monitoring of paddy plantation area on the county-level with ETM-assisted MODIS [J]. *Soils*, 2008, 40(3):484~489
30. HU Xu-li, **JIANG Xiao-san**, YANG Shu-jiang, ZHANG Chun-ping, PAN Jian-jun. Application of a New Algorithm to Assessment of Rainfall Erosiveness in Mountaineous Regions in West Henan [J]. *Soils*, 2007, 39 (4): 637~636
31. YIN Li-ming, **JIANG Xiao-san**, HU Xu-li, PAN Jian-jun. Quality Control During Building DEM [J]. *Research of Soil and Water Conservation*. 2006, 13 (3): 99~101
32. XU Duan-yang, **JIANG Xiao-san**, PAN Jian-jun, LIAO Qi-lin, ZOU Song-mei, WU Xin-min. Evaluation of environmental quality of soil in farms producing hazard-free agricultural products [J]. *Soils*, 2006, 38(3): 282~286.
33. Hu Xu-li, **Jiang Xiao-san**, Yang Shu-jiang, Zhang Cheng-jun, Pan Jian-jun. Preliminary study on adaptability of rainfall erosivity model to different regions [J]. *Science of Soil and Water Conservation*. 2006, 4 (5): 44~49
34. Ding Fei, Zhang Zu-xing, Cai A-xing, Hu Xu-li, **Jiang Xiao-san**, Pan Jian-jun. A Discussion on the Applicability of The Reference Index of Soil Erosion Intensity Classification [J]. *Chinese Agricultural Science Bulletin*. 2006, 22(7):343~346.

35. HU Xu-li, **JIANG Xiao-san**, YIN Li-ming, YANG Shu-jiang, PAN Jian-jun. Temporal and spatial variance of rainfall erosivity in the upstream Area of the Zhaopingtai reservoir [J]. *Chinese Journal of Soil Science*. 2006, 37 (6): 1195~1198.
36. GAO Jian-feng, PAN Gen-xing, **JIANG Xiao-san**, PAN Jian-jun*. Land-use induced changes in topsoil organic carbon stock of paddy fields using MODIS and TM/ETM analysis [J]. *Journal of Environmental Sciences*. 2008, 20(7): 852-858
37. YANG Ping, HU Xu-li, **JIANG Xiao-san**, HE Xu-dong, PAN Jian-jun. Spatial variability of soil erodibility K value and influence of sampling densities on K value accuracy at a scale of small watershed [J]. *Bulletin of Soil and Water Conservation*. 2006, 26 (6): 35~39.
38. WU Jing , YANG Lian-Fang, **JIANG Xiao-San**, LI Qiang ,WANG Bei-Xin* .Evaluating the influence of land-use and land-cover changes on upper Xitiaoqi Watershed, Zhejiang Province, China, using macro invertebrate-based biotic integrity index[J] .*Acta Ecologica Sinica*. 2008, 28(3):1183~1191
39. YIN Li-ming, LU Yu-dong, PAN Jian-jun, **JIANG Xiao-san**, TAN Qin-wen. Study on extracting Land use/cover information based on multiband combination technology [J]. *Journal of Remote Sensing Information*. 2005, 5: 16~19.

40. HU Xu-li, PAN Jian-jun, YANG Shu-jiang, **JIANG Xiao-san**, GAO Tai-cheng. Comparative Study on Rainfall Erosivity Models Using Daily Rainfall Amounts [J]. *Bulletin of Soil and Water Conservation*. 2006, 26(1): 68~70
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