

Curriculum Vitae

Wu Jianhua, Ph.D.

Contact Details

School of Geography and Environment, Jiangxi Normal University
No.99, Ziyang Avenue, Nanchang Jiangxi, 330022 P. R. CHINA
Phone: (+86)15170484184(Nanchang, China),

Spatial Sciences Institute, Dornsife College of Letters, Arts and Sciences
University of Southern California
3616 Trousdale Parkway, AHF B55, University of Southern California, Los Angeles,
CA 90089-0374
Phone: (+1)323-6171439(Los Angeles, USA)

Email: wjhgis@126.com / jw_255@usc.edu

Research Interests

- Geospatial Data Management and Update
- Geospatial Data Matching and Integration
- Geographic Information Engineering
- Digital Map Processing
- Graphics Recognition
- Location-based Services and Sensor Monitoring

Specialty

I have rich experiences in GIS design, applications, development and project management

Courses Taught

- GIS Theories and Methods
- Ordinary and Thematic Map Making
- Geomatics
- Cartography
- GIS Software and Applications
- C++ Program Design
- Spatial Data Organization and Management

Appointments

2015.4-Pres. Visiting scholar, Spatial Sciences Institute, University of Southern California.

- 2013-Pres. Dean of GIS department, School of Geography and Environment, Jiangxi Normal University
- 2013- Pres. Committee Member of Education and Popular Science Work Committee, Chinese Association for Geographic Information Industry
- 2012-Pres. Associate professor, School of Geography and Environment, Jiangxi Normal University
- 2008-2012 Lecturer, School of Geography and Environment, Jiangxi Normal University

Education

Ph.D. 2008, School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, Hubei Province, China

M.S. 2005, School of Remote Sensing and Information Engineering, Wuhan University, Wuhan, Hubei Province, China

B.S. 2002, School of Geodesy and Geomatics, Wuhan University, Wuhan, Hubei Province, China

2014.3-2014.6 Studied On Advance English Training Programme At Overseas Training Center of Guangdong University of Foreign Studies, Obtained The Certificate for Government-sponsored Scholars Going to Study Abroad,

Honors and Awards

2014 Outstanding Instructor Award in the GIS software developing competition of 2014 ESRI cup for Chinese college students(Students won the third prize), China Surveying and Mapping Geographic Information Society and ESRI (China) Information Technology Co., Ltd.

2014 Best Paper Award, the Sixth National Youth Teachers GIS Education Symposium, Education and Popular Science Work Committee of Chinese Association for Geographic Information Industry, Sept. 14, 2014

2014 Outstanding Instructor Award in the third GIS application skill competition for college students nationwide (Students won the second prize), Chinese Association for Geographic Information Industry, Education and Popular Science Work Committee of Chinese Association for Geographic Information

Industry, Sept. 13, 2014

2014 The 2013 Advanced Individual in Employment Work, Department of Enrollment and Employment, Jiangxi Normal University, April 2014

2013 Excellent Paper Award for the second prize in the science symposium of Chinese Geographic Association in central China area, Chinese Geographic Association, September 2013

2013 Outstanding Instructor Award in the second GIS application skill competition for college students nationwide, Education and Science Committee, Chinese Association for Geographic Information Industry, November 10, 2013

2012 Outstanding Instructor Award in the GIS software developing competition of 2012 ESRI cup for Chinese college students, Chinese Remote Sensing Application Association and ESRI (China) Information Technology Co., Ltd.

2012 The annual advanced workers of 2011-2012 in teaching and education, Jiangxi Normal University

2012 The annual work activist of trade union of 2011-2012, Jiangxi Normal University

2012 Major Scientific Achievement Award in 2012, Jiangxi Normal University

2011 Excellent Instructor Award for guiding thesis design for undergraduates in 2010, Jiangxi Normal University

2010 Excellent Instructor Award for guiding thesis design for undergraduates in 2009, Jiangxi Normal University

2008 The Project of “Foundation Geographic Information System of Zhejiang Province” I participated in more than one year won 2008 Chinese GIS Excellent Project Gold Award, Chinese Association for Geographic Information Industry

2012 The Project of “Real Estate Surveying Software of Shenzhen City” I participated in hosting more than one year won 2012 Chinese GIS Excellent Project Silver Award, Chinese Association for Geographic Information Industry

Funded Research Projects and Grants

- Principal Investigator, Project supported by a land information technology Company, Cadastral Information Management System of Nanchang Railway

Bureau, December 2014-October 2015.

- Principal Investigator, Project supported by National Natural Science Foundation for Youth of China 41201409, Research on Adaptive Optimal Matching Method Based on Dynamic Neighborhood for Spatial Entities, January 2013-December 2015.
- Principal Investigator, Project supported by youth science foundation of Education Department of Jiangxi Province GJJ12209, Smart Matching Methods for Vector Spatial Data, January 2012-December 2014.
- Principal Investigator, Project supported by the opening director foundation of Key Lab of Poyang Lake Wetland and Watershed Research, Ministry of Education ZK2013008, Research on Poyang Lake Smart Water Resource Monitoring Based on WSN and 3S Technologies, July 2013-July 2015.
- Principal Investigator, Project supported by a bureau of surveying and mapping, Comprehensive Management Information System for Land Resources, August 2013-May 2014.
- Principal Investigator, Project supported by grand national science-technology special foundation 2011ZX05039-004, Emergency Decision System for Surface Gathering and Transporting of CBM, November 2011-August 2012, ¥120,000.
- Principal Investigator, Project supported by Wuhan University, Real Estate Surveying and Mapping Data Management Subsystem and the Quality Inspection and Audit Subsystem of Shenzhen City, March 2011-March 2012.
- Principal Investigator, Project supported by an information technology Company, Poyang Lake Water Quality Geographic Information System, January 2010-January 2011.
- Principal Investigator, Project supported by an information technology Company, Network Voice and Video Information Monitoring System Based on Geographic Information System, November 2009-February 2010.

Software Copyright

- The copyright owner: **WU Jianhua**. Software name: Video Surveillance Commanding Management System Based on 3S Technologies. Certificate No. 0417462, June, 12, 2012.
- The copyright owner: **WU Jianhua**. Software name: Cadastral Management

Information System. Certificate No. 0417462, June, 12, 2012.

- The copyright owners: PENG Ganghua, HU Ruizhi, GUO Xiaoping, PENG Zhengyuan, LI Xiaoyan, **WU Jianhua**, QIU Li, HUANG Liangying, ZHAO Zhongxun. Software name: The System of Watershed Water Environmental Monitoring Quality Control, Data Management and Analysis. Certificate No. 0423987, June, 28, 2012.
- The copyright owner: **Jiangxi Normal University**. Software name: Quick Mapping System of Land Parcel. Certificate No. 0902207, Jan, 26, 2015.
- The copyright owner: **Jiangxi Normal University**. Software name: System of Water Environment Data Collecting, Management and Analysis in Poyang Lake Area. Certificate No. 0902119, Jan, 26, 2015.

Publications

Articles/Book Chapters

Articles:

- 2015 **WU Jianhua**, Wan Yangyang. Study on the Entity Matching Algorithm Based on Thiessen Polygon for Point Entities [J]. *Science of Surveying and Mapping*, Vol.40, No.4:97-100,120. (Corresponding Author)
- 2014 MA Yukuan, **WU Jianhua**, WAN Yangyang, YU Mengjuan, LIU Qing. Design of Poyang Lake water environment information management system [J]. *JOURNAL OF NANCHANG UNIVERSITY (ENGINEERING&TECHNOLOGY)*, 2014, Vol.36, No.4:317-321. (Corresponding Author)
- 2014 **WU Jianhua**. Study on developing Watershed Water Quality Monitoring System based on ArcGIS and ASP.NET [J]. *Geomatics & Spatial Information Technology*, 2014.10, Vol.37, No.10:1-4.
- 2014 **WU Jianhua**, GONG Jun, HU Yuezhi, WAN Yangyang. Theoretical Framework and Research Methods of Poyang Lake Smart Water Resource Monitoring Based on WSN and 3S Technologies [J]. *Applied Mechanics and Materials*, Vols.519-520(2014) pp 1227-1232. (EI)
- 2013 Zhou Fan, Shao Shiwei, **Wu Jianhua**, Fu Zhongliang. Method for Fundamental Matrix Estimation Combined with Line Features [J]. *Acta Optica Sinica*, 2013.10, Vol.33, No.10, pp 1015003-1-1015003-8. (EI)
- 2013 Ying Chen, Jin Chen, **Jianhua Wu**, Fan Zhou. A New Dynamic Form Component Oriented GIS Applications [J]. *Applied Mechanics and Materials*, Vols. 263-266 (2013), pp 1173-1177. (EI)

- 2013 **WU Jianhua**, RUI Xiaoping. Emergency Decision System for Surface Gathering and Transporting of CBM Based on Technologies of 3G Wireless Video Monitoring and 3S [J]. *Applied Mechanics and Materials*, Vols. 241-244 (2013) pp 2519-2523. (EI)
- 2012 **WU Jianhua**, PENG Zhenwen. Water Environment Monitoring Information System Based on ASP.NET and ArcGIS Server. *WCSE2012 (2012 3rd World Congress on Software Engineering)*, 6-8 November, 2012, Wuhan, China, pp 211-214. (EI)
- 2012 **WU Jianhua**. Research on Management Methods and Applications for Sharing-Oriented Estate Surveying Data. *The 2012 9th International Conference on Fuzzy Systems and Knowledge Discovery (FSKD'12)*, 29-31 May 2012, Chongqing, China, pp 1664-1668. (EI)
- 2011 **WU Jianhua**, ZHOU Jingyun, WU Buwei. Method Exploration of Self-adaptive Entity Matching in Map Fusion. *EPLWW3S 2011(2011 International Conference on Ecological Protection of Lake-Wetland-Watershed and Application of 3S Technology Proceedings)*, June 25 to 26, 2011, Nanchang, China, pp1939-1945. (EI)
- 2011 LI Jianbin, LUO Xiaomeng, **WU Jianhua**, WEN Bo. Inventory Control Strategy Optimization Decision Support System Based On (s, S) Policy in ERP [J]. *J.Sys. & Math.Scis.* .2011, No.11, pp 67-70. (Chinese Science Citation Database: CSCD)
- 2011 **WU Jianhua**, LUO Xin, SU Jin. Video Surveillance Commanding Management System for Police Based on GIS [J]. *Bulletin of Surveying and Mapping*, 2011, No.11, pp 67-70. (CSCD)
- 2011 **WU Jianhua**. GIS System Development for Vehicle Monitoring Based on ArcGIS Engine[J]. *JOURNAL OF GEO-INFORMATION SCIENCE*, Vol.13, No.1, pp 88-94. (CSCD)
- 2010 **WU Jianhua**. Development Methods of GIS Software Based on ArcGIS Engine [J]. *Bulletin of Surveying and Mapping*, 2010, No.11, pp 54-57. (CSCD)
- 2010 **WU Jianhua**. Entity Matching Methods Based on Combining Multi-Similarity Characteristics Considering Environment Similarity [J]. *Geography and Geo-Information Science*, 2010, Vol.26, No.4, pp 1-6. (CSCD)
- 2008 **WU Jianhua**. Method of Multi-scale Spatial Data Organization Based on Share-scale Idea [J]. *Bulletin of Surveying and Mapping*, 2008, No.8, pp 10-13. (CSCD)

- 2008 FU Zhongliang, **WU Jianhua**. Entity Matching in Vector Data[C]. *The 21st ISPRS (International Society for Photogrammetry and Remote Sensing) Conference*, Beijing, pp 1467-1472.
- 2008 **Wu Jianhua**, Fu Zhongliang. Methodology of Feature Change Detection and Matching in Data Updating [J]. *Computer Applications*, 2008, Vol.28, No.6, pp 1383-1386. (CSCD)
- 2008 FU Zhongliang, HUANG Yan, CHEN Nan, MENG Xinxiang, **WU Jianhua**, Qin Kun, ZHANG Penglin. Development Tutorials of ArcObjects [M]. *The publishing house of Surveying and mapping*, 2008, 3.
- 2007 **Wu Jianhua**, Fu Zhongliang. Research on Methods of Inconsistency Automatic Detection and Adjustment of Spatial Vector Data. *International Conference on Information Technology & Environmental System Sciences 2008, May 15-17, 2008*, Jiaozuo, China, pp 87-92. (ISTP)
- 2007 FU Zhongliang, **WU Jianhua**. Update Technologies for Multi-scale Spatial Database [J]. *GEOMATICS AND INFORMATION SCIENCE OF WUNAN UNIVERSITY*, 2007, Vol32, No.12, pp 1115-1118. (EI)
- 2007 **Jianhua Wu**, Zhongliang Fu, Qi Sheng, Runbo Hu. Spatio-Temporal GIS Extended Model Based on Archive Mechanism and It's Application. *iwgis'07, 14-15 September, Beijing, P.R.China. (7th International Workshop on Geographical Information System)*, pp 12-19
- 2007 **WU Jianhua**, FU Zhongliang, WANG Li. Drainage geographic information system based on C/S and B/S hybrid architecture [J]. *Computer Engineering and Applications*, 2007, Vol.43, No.7, pp 230-232. (CSCD)
- 2007 **WU Jianhua**, FU Zhongliang. Algorithm and Implementation of Urban Drainage Pipeline Connection and Tracing Analysis [J]. *GEOSPATIAL INFORMATION*, 2007, Vol.5, No.1, pp 60-62.

Book:

- 2008 FU Zhongliang, HUANG Yan, CHEN Nan, MENG Qingxiang, **WU Jianhua**, QIN Kun, ZHANG Penglin. Course of Second Development Based on ArcObjects. The publishing house of Surveying and mapping