

# Curriculum Vitae

## **Personal data:**

Name: WU Shaohong

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Date of Birth: September 23, 1961

Place of birth: Chaozhou City, Guangdong Province, China

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## **Education experience:**

Graduated from Geographical Department, Zhongshan University in August 1982; obtained Master Degree from International Institute of Aerospace Survey and Earth Science in The Netherlands (ITC); and obtain Ph D from Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences in 2001.

## **Interested fields:**

Main subject is physical geography. Fields of research cover resources and environment. At present, two main topics focused on are 1) impacts of climate change on ecosystems, vulnerability and adaptation of the ecosystems; 2) regional eco-geographical system, that is, regional system of geographical zonality of macro-ecosystems, which integrated reflected spatial pattern of physical factors such as temperature, moisture, vegetation and soils, and their matching to natural resources and environment.

## **Work experience:**

Working in Institute of Geographical Sciences and Natural Resources Research, Chinese Academy of Sciences since August, 1982; getting assistant professor in 1987, associated professor in 1994, and professor in 1999. Main projects participated include “corridor-barrier function and eco-effects under special environment in the Longitudinal Ranges and Gorges Region” [a project of National Key Basic Research and Development Program (973 program)]; “threshold and comprehensive assessment on impact of climate change on natural ecosystems of China” [a project of National

Key Science and Technology Program]; “integration on natural and human indicators for terrestrial surface pattern” [a project of National Commission of Natural Science Foundation of China]; and projects of Knowledge Innovation Engineering of Chinese Academy of Sciences and projects of international cooperation. In the recent year participating edition of the Forth Assessment Report of Inter-governmental Panel of Climate Change (IPCC), as a coordinating leader author (CLA) for chapter 10 of Work Group II. At the same time, as a leader author of volume II, main impact, key vulnerability, and adaptation, I participate edition of National Report of Climate Change of China.

**Papers since 2000:**

**2006 :**

1. **SHAOHONG WU**, YUNHE YIN, DU ZHENG and QINYE YANG, 2006, MOISTURE CONDITIONS AND CLIMATE TRENDS IN CHINA DURING THE PERIOD OF 1971 - 2000, *INTERNATIONAL JOURNAL OF CLIMATOLOGY*, 26: 193~206
2. **WU Shaohong, Pan TAO, DAI Erfu**, 2006 ,The Progress and Prospect of Stable isotopes in Plants, *Progress in Geography*, 25 ( 3 ) : 1~11
3. **Wu Shaohong**, Zhao Huixia, Yin Yunhe, Li Shuangcheng, Shao Xuemei, Tao Bo, 2006, Recognition of Ecosystem Response to Climate Change Impact, *Advances in Climate Change Research*, 2(s): 59~63
4. DAI Erfu, **WU Shaohong**, LI Shuangcheng, WANG Suiji, ZHOU Changhai, & HAO Chengyuan, 2006, Spatial variability on vegetation parameters in Longitudinal Range-Gorge Region, *Chinese Science Bullentin*, 51(s): 1~8
5. ZHOU Changhai, **WU Shaohong**, DAI Erfu, HAO Chengyuan, & PAN Tao, 2006, Vapor corridor phenomenon and response of vegetation NPP in Longitudinal Range-Gorge Region, *Chinese Science Bullentin*, 51(s): 81~89
6. KANG Xiangwu, **WU Shaohong**, DAI Erfu, YANG Qinye, LIU Ziqiang, MA Xin & ZHAO Ruifneg, 2006, Pre-assessment on the loss and impact caused by large-scale flood disaster, *Chinese Science Bullentin*, 51(s): 155~164
7. HAO Chengyuan, **WU Shaohong**, 2006, The effects of land-use patterns and conversions on desertification in Mu Us Sandy Land of China, *Journal of Geographical Sciences*, 16 (1): 57~68
8. LI SHUANGCHENG, ZHOU QIAOFU, **WU SHAOHONG** and DAI ERFU, 2006, MEASUREMENT OF CLIMATE COMPLEXITY USING SAMPLE ENTROPY, *INTERNATIONAL JOURNAL OF CLIMATOLOGY*, 26: 2131 ~ 2139
9. ZHAO Dongsheng, LI Shuangcheng, **WU Shaohong**, 2006, Progress on Climate-Vegetation Modeling in the Tibetan Plateau, *Progress in Geography*, 25 (4): 68 ~ 78

10. LIN Erda, XU Yinlong, JIANG Jinhe, LI Yu'e, YANG Xiu, ZHANG Jianyun, LI Congxian, **WU Shaohong**, ZHAO Zongqun, WU Jianguo, JU Hui, YAN Changrong, WANG Shourong, LIU Yufen, DU Bilan, ZHAO Chengyi, QIN Baofan, LIU Chunzhen, HUANG Yingchao, ZHANG Xiaoquan, MA Shiming, 2006, National Assessment Report of Climate Change (II): Climate change impacts and adaptation, *Advances in Climate Change Research* 2(2) : 51 ~ 56

**2005:**

11. **WU Shaohong**, YINYunhe, ZHENG Du, & YANG Qinye, 2005, Aridity/humidity status of land surface in China during the last three decades, *Sciences in China*, 48 (9): 1510~1518
12. **WU Shaohong**, JIN Jing, DAI Erfu, 2005, PS123 crop growth model based method to calculate potential maize productivity in Hailun, Heilongjiang, *Transactions of CSAE*, 21(8): 93-97
13. **WU Shaohong**, LIU Weidong, 2005, An integrated approach to classification of territorial systems: a case study of Tibetan Plateau, *Geographical Research*, 24 (2): 169~177
14. **WU Shaohong**, DAI Erfu, HE Daming, 2005, Major Research Perspectives on Environmental and Developmental Issues for the Longitudinal Range-Gorge Region (LRGR) in Southwestern China, *Progress in Geography*, 24(1) : 31~40
15. **WU Shaohong**, YIN Yunhe, ZHENG Du, YANG Qinye, 2005, Climate Change in the Tibetan Plateau during the Last Three Decades, *Acta Geographica Sinica*, 60 (1): 3~11
16. YIN Yunhe, **WU Shaohong**, ZHENG Du & YANG Qingye, 2005, Regional difference of aridity/humidity conditions change over China during the last thirty years, *Chinese Science Bulletin (SCI)*, 50 (19): 2226~2233
17. KANG Xiangwu, **WU Shaohong**, YIN Yunhe, YANG Qinye, DAI Erfu, 2005, Formation mechanism of land desertification and adjustment of land use in ecotone between agriculture and animal husbandry in North China, *Transactions of CSAE*, 21(8): 45-51
18. HE Daming, **WU Shaohong**, PEN Hua, YANG Zhifeng, OU Xiaokun, CUI Baoshan, 2005, A STUDY OF ECOSYSTEM CHANGES IN LONGITUDIANAL RANGE-GORGE REGION AND TRANSBOUNDARY ECO-SECURITY IN SOUTHWEST CHINA, *ADVANCES IN EARTH SCIENCE*, 20 (3): 338-344
19. LI Shuangcheng, **WU Shaohong**, DAI Erfu, 2005, Assessing the fragility of ecosystem using artificial neural network model, *Acta Ecologica Sinica*, 25 (3): 621 ~ 326
20. HAO Chengyuan, **WU Shaohong**, YANG Qinye, 2005, Spatial Analysis and Integrative Research of Physical Geography, *Geography and Geo-information Science*, 21 (1): 52 ~ 55

21. CAO Jun, **WU Shaohong**, YANG Qinye, 2005, Study on Conversion of Cropland to Forest and Grassland in Zhaluqi, *Journal of Arid Land Resources and Environment*, 19 (3): 171~174
22. HAO Chengyuan, **WU Shaohong**, YANG Qinye, 2005, Research on Relationship between Sandy Desertification and Land Use in Mu Us Region, *Journal of Desert Research*, 25 (1): 33~39
- 2004:**
23. **WU Shaohong**, YANG Qinye, CAO Jun, 2004, The Causes of Dust/Sand Storm in North China, *Journal of Arid Land Resources and Environment*, 18 (s): 21 ~ 25
24. CAO Jun, **WU Shaohong**, YANG Qinye, 2004, Adjustment of land use distribution based on desertification status and land adaptability, *Transactions of the Chinese Society of Agricultural Engineering*, 20 (5): 281 ~ 285
25. LU Xinmiao, **WU Shaohong**, CHEN Hui, XU Qinghai, YANG Xiaolan, 2004, Modern pollen precipitation in the southern slope of the Eastern Qilian Mountains and its relationship to vegetation; *Journal of Beijing Forestry University*, 26 (5): 55 ~ 60
26. CAO Jun, **WU Shaohong**, YANG Qinye, 2004, Changes of Desertification from 1985 to 2000 in South of Korqin Sandy Land, *Journal of Soil and Water Conservation*, 18 (4): 117 ~ 120
27. CAO Jun, **WU Shaohong**, YANG Qinye, 2004, Land Use and Desertification in Horqin Sandy Land, *Journal of Desert Research*, 24 (5): 548 ~ 552
28. YAO Huarong, **WU Shaohong**, CAO Mingming, 2004, Optimum allocation of regional land and water resources based on GIS, *Transactions of the Chinese Society of Agricultural Engineering*, 20 (2): 31 ~ 35
29. LIU Huamin, **WU Shaohong**, ZHENG Du, YANG Qinye, 2004, The Study on the Potential Natural Vegetation and Future Prospect, *Progress in Geography*, 23 (1): 62 ~ 70
30. DAI Erfu, **WU Shaohong**, 2004, Sustainable land use: literature review and research progress, *Progress in Geography*, 23 (1): 79 ~ 88
31. YAO Huarong, **WU Shaohong**, CAO Mingming, YANG Qinye, 2004, Spatial Optimum Allocation of Regional Water-Land Resources, *Resources Science*, 26 (1): 99 ~ 106
- 2003:**
32. **WU Shaohong**, YAO Huarong, YANG Qinye, 2003, Optimal spatial allocation of water-land resources for sand/dust storm prevention and control in different

- ecological regions of the capital circle, *Journal of Natural Resources*, 18 (6): 712 ~ 718
33. **WU Shaohong**, YANG Qinye, ZHENG Du, 2003, Comparative Study on Eco-geographic Regional Systems between China and USA, *Acta Geographica Sinica*, 58 (5): 686 ~ 694
34. **WU Shaohong**, YANG Qinye and ZHENG Du, 2003, Delineation of Eco-geographic Regional System of China, *Journal of Geographical Sciences*, 13: 3309 ~ 315
35. LU Xinmiao, **WU Shaohong**, YANG Qinye, 2003, An Assessment of Global Environmental Change and Its Impacts on the Regional Development in China, *Progress in Geography*, 22 (3): 260~269
36. YAO Huarong, **WU Shaohong**, YANG Qinye, 2003, Conversion of Low Degree of Vegetation Cover Land Use in Region Around Beijing, *Progress in Geography*, 22 (4): 409 ~ 416
37. GE Quanshen, **WU Shaohong**, ZHU Liping, ZHANG Xueqin, 2003, Some ideals related to the development of Chinese geography in the 21 century, *Geographical Research*, 22 (4): 406~415
- 2002:**
38. **WU Shaohong**, YANG Qinye, ZHENG Du, 2002, An Index System for Boundaries of Eco-geographical Regions of China, *Progress in Geography*, 21 (4): 302~310
39. **WU Shaohong**, LI Rongsheng, 2002, Food Demand, Ensure and countermeasures for China in the Next 30 Years, *Progress in Geography*, 21 (2): 121~129
40. YANG Qinye, **WU Shaohong**, ZHENG Du, 2002, A retrospect and prospect of research on regional physio-geographical system RPGS, *Geographical Research*, 21 (4): 407~417
- 2001:**
41. **WU Shaohong**, ZHENG Du, 2001, Delineation of boundary between tropical/subtropical in the middle section for eco-geographic system of South China, *Journal of Geographical Sciences*, 11 (1): 80-86
42. **WU Shaohong**, ZHENG Du, YANG Qinye, 2001, A Preliminary Study on Eco-geographic System and Ecological Construction in West China, *Progress in Geography*, 20 (1): 10~20
43. **WU Shaohong**, CHEN Xiaogang *et al.*, 2001, Study on Land Resources Sharing, *Resources Sciences*, 23 (1): 49~53
- 2000:**
44. Du Zheng, Qingsong Zhang and **Shaohong Wu**, 2000, Mountain Geocology and Sustainable Development of the Tibentan Plateau, Kluwer Academic Publishers, Dordrecht,

45. **WU Shaohong**, ZHENG Du, 2000, New Recognition on Boundary between Tropical and Subtropical zone in the Middle Section of Eco-geographic System, Acta Geographica Sinica, 56 (6): 689~697

**Academic community:**

Member of Geographical Society of China (Deputy Secretary General)

Member of Tibetan Plateau Research Association

Member of Expert Group of National Commission of Natural Disaster Reduction of China

Member of Natural Resources Association of China