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a. Professional Preparation

Lishui University	Literature	B.S.	1985
Southwestern University of Finance and Economic	Economics	M.S.	1990
University of Chinese Academy of Sciences	Ecology	PhD	2014

b. Appointments:

10/2014- Assistant Research Professor & GIS/RS Lab Director, School of Forestry and Wildlife Sciences, Auburn University.

8/2003- 9/2014 Research Associate IV & GIS Lab Director, School of Forestry and Wildlife Sciences, Auburn University.

8/2001- 8/2003 Research Associate & Project Coordinator , NASA Regional Earth Science Applications Center, Applied Remote Sensing Program, Univ. of Kansas,

12/1998- 8/2001, Data Specialist, the Ecosystems Center, Marine Biological Laboratory, Woods Hole, Massachusetts.

1990-1993, Assistant Professor, Capital University of Economics and Business, Beijing, China

1985-1987, Instructor (1985-1987), Lishui University, Zhejiang.

c. Publications (Out of 50+ Papers, Total citation: **1154**: h-index: **20**, Google Scholar, by Jan 2015)

(i) Five Most Closely Relevant Publications:

- 1) **Pan, S.**, H. Tian, S. Dangal, Q. Yang, J. Yang and C. Lu (2015) Responses of global terrestrial evapotranspiration to climate change and increasing atmospheric CO₂ in the 21st century. *Earths Future*, DOI: 10.1002/2014EF000263
- 2) **Pan, S.**, H. Tian, S. Dangal, C. Zhang, J. Yang, B. Tao, Z. Ouyang, X. Wang, C. Lu, W. Ren, K. Banger, Q. Yang, B. Zhang, X. Li (2014) Complex spatiotemporal responses of global terrestrial primary production to climate change and increasing atmospheric CO₂ in the 21st century. *Plos ONE*, DOI: 10.1371/journal.pone.0112810
- 3) **Pan, S.**, Tian H., Dangal S., Ouyang Z., Tao B., Ren W., Lu C., Wang X. and Running S. (2014). Modeling and monitoring terrestrial primary production in a changing global environment: Toward a multi-scale synthesis of observation and simulation. *Advances in Meteorology* doi: 10.1155/2014/965936
- 4) **Pan, S.**, Tian H., Liu, J., Ouyang Z., and Liu, M. (2014) The potential and contemporary distribution of vegetation in China for large-scale ecosystem modeling and analysis. *Acta Ecological Sinica* doi: 10.5846/stxb201405301119
- 5) **Pan S**, Li G, Yang Q, Ouyang Z, Lockaby G, et al. (2013) Monitoring Land-Use and Land-Cover Change in the Eastern Gulf Coastal Plain using Multi-temporal Landsat imagery. *J Geophys Remote Sensing 2*: 108. doi:10.4172/2169- 0049.1000108

(ii) Five Other Significant Publications

- 1) **Pan, S.**, Tian H., Dangal S., Ouyang Z., Lu C., Yang J., Ren W., Tao B., Banger K., Yang Q., and Zhang B. (2015) Interannual and spatial variations of global net primary

production in the first decade of the 21st century. *Journal of Geographical Sciences*, in press

- 2) **Pan**, S., Dangal S, Tao, B., Yang, J. and Tian, H. (2015) Increased terrestrial net primary production in Africa in response to climate and other environmental changes, *Ecosystem Health and Sustainability*, in press
- 3) Helms, B., J. Feminella, and **S. Pan**. 2005. Detection of biotic responses to urbanization using fish assemblages from small streams of western Georgia, USA. *Urban Ecosystem_8*: 39-57.
- 4) Schoonover, J. G. Lockaby, **S. Pan**. 2005. Changes in Chemical and Physical Properties of Stream Water across an Urban-Rural Gradient in Western Georgia. *Urban Ecosystem* 8: 107-124.
- 5) Burton, M., L. Samuelson and **S. Pan**. 2005. Riparian woody plant diversity and forest structure along an urban-rural gradient. *Urban Ecosystem_8*: 93-106.

d. Synergistic Activities

Editorial Board: Open Access Journal of Forestry

Board of Directors (2001- present.), Institute of Ecological Economics at Lishui University
PI and Co-PI for 12 research projects totaling over \$2.5 million from USDA, NASA, DOE, Sea Grant and others.

Coordinator: Two large NASA IDS Projects in China and Monsoon Asia: (2004-2012)

Recent Auburn News:

- 1) Auburn professor warns of possible widespread water scarcity by the end of 21st century, published January 12, 2015 <http://wp.auburn.edu/sfws/auburn-professor-warns-of-possible-widespread-water-scarcity-by-the-end-of-21st-century/>;
- 2) Auburn professor confirms new threshold for climate change mitigation, Published On: 11/19/2014, http://ocm.auburn.edu/newsroom/campus_notices/faculty_staff/2014/11/pan-confirms-new-threshold-for-climate-change-mitigation.htm;
- 3) Auburn Climate Change Research featured by US Global Change Research Program, Auburn Daily, May 30 , 2014;
- 4) AU climate research team contributes to new National Climate Assessment, Auburn Daily, May 28, 2014

e. Collaborators & Other Affiliations

i. Collaborators and Co-Editors

Wei-Jun Cai (U. Delaware), Art Chappelka (Auburn U.), M. Friedrichs (VIMS), R. He (NCSU), E. Hofmann (Old Dominion U.), C. Hopkinson (U. Georgia), Jiyuan Liu (Chinese Academy of Science), Y. Liu (USDA Forest Service), G. Lockaby (Auburn U.), S. Lohrenz (UMass), , S. McNulty (USDA), JM Melillo (MBL), R. Najjar (Penn State U.), J. Reilly (MIT), S. Running (U. Montana), G. Sun (USDA Forest Service), H. Tian (Auburn U.), S. Wofsy (Harvard), D. Yi (Georgia Tech), Chi Zhang (Chinese Academy of Science)

ii Graduate and Postdoctoral Advisors

Ph.D. Graduate Advisor: Ouyang Zhiyun, Research Center for Eco-Environmental Sciences, Chinese Academy Science;

M.S. Graduate Advisor: Fusheng Chen, Capital University of Economics & Business

iii. Thesis Advisor and Postgraduate-Scholar Sponsor

Graduate students (4): J. Wu, R. Xu, S. Dangal, Y. Yao
