

## Curriculum Vitae

GUOFAN SHAO, Ph.D.

### 1. Current Employment and Posts

- ✎ **Professor**, Purdue University, Department of Forestry and Natural Resources, 715 West State Street, West Lafayette, IN 47907-2061, USA, Tel: 765-494-3630, Fax: 765-494-9461, E-Mail: shao@purdue.edu, Website: <http://web.ics.purdue.edu/~shao/>
- ✎ **Honorary Dean**, Jilin Changbai Mountain Academy of Sciences, China
- ✎ **Editorial Board Member**, *Acta Ecologia Sinica* (China), *Journal of Forestry Research* (China), *Forestry – International Journal of Forest Research* (UK)

### 2. Academic Preparation

- ✎ **Post-Doctoral Education**, 1991-1994, Department of Environmental Sciences, University of Virginia, Charlottesville, VA. Supervised by Dr. Herman H. Shugart.
- ✎ **Ph.D.** in Ecology, 1986-1989, Chinese Academy of Sciences. Supervised jointly Prof. Z. Wang. Partial research was accomplished at Environmental Systems Research Institute (ESRI), Germany. Under the guidance of Dr. Jörg Schaller.
- ✎ **M.S.** in Forest Management, 1982-1985, Northeastern Forestry University, China. Jointly supervised by Profs. Y. Bai and Y. Jiang.
- ✎ **B.S.** in Forestry, 1978-1982, Northeastern Forestry University, China.

### 3. Employment History

✎ Purdue University, USA	Professor	July 08 – Present
✎ Purdue University, USA	Associate Professor	July 02 – June 08
✎ Purdue University, USA	Assistant Professor	Jan. 97 – June 02
✎ Chinese Academy of Sciences	Adjunct Research Professor	March 01–Feb. 04
✎ University of Virginia, USA	Research Scientist	Feb. 94 – Dec. 96
✎ Chinese Academy of Sciences	Research Assistant Professor	May 90 – Jan. 91
✎ Environ. Sys. Research Institute, Germany	GIS Specialist	Jan. 90 – Apr. 90
✎ Changbai Mt. Research Station, China	Assistant Manager	Feb. 89 – Dec. 89
✎ Institute of Terrestrial Ecology, UK	Research Assistant	Nov. 88 – Jan. 89
✎ Environ. Sys. Research Institute, Germany	Research Assistant	Jul. 88 – Oct. 88
✎ Shenyang Agriculture University, China	Lecture	Aug. 85 – Feb. 86
✎ Northeast Forestry University, China	Teaching Assistant	Aug. 84 – Jul. 85

### 4. Honorable Awards

- ✎ Third place of Science and Technology Award, given by the State Forestry Administration of China, 1999.
- ✎ Second Place of Scientific Book Award, given by China's National Committee of Scientific Book Evaluation, Sept. 1997.
- ✎ Outstanding Ph.D. degree recipient, an honor given by the National Education Council of China, Jan. 1991.

- 🐾 Outstanding young scientist, an honor given by the Chinese Academy of Sciences, 1990.
- 🐾 Outstanding graduate student, an honor given by the Northeastern Forestry University, 1984..

## 5. Academic and Administrative Interest and Expertise

- 👍 Applying Geospatial Technologies in Forest Ecosystem Management and Biodiversity Conservation
- 👍 Landscape Monitoring and Evaluation with Remote Sensing and Geographic Information Systems
- 👍 Forest Dynamics Simulations and Carbon Sequestration Quantifications with Forest Models
- 👍 Education and Training of College Students and Professional in Geospatial Technologies
- 👍 Natural Resource/Eco-Environmental Policy and Sustainability in China and Its Surrounding Areas

## 6. Publications


### 👉 Selected 10 out of 76 Peer-Reviewed Journal Publications

- Shao, G. and J. Wu. 2008. On the accuracy of landscape pattern analysis using remote sensing data. *Landscape Ecology* 23: 505-511.
- Martin, B., G. Shao, R.K. Swihart, G.R. Parker, and L. Tang. 2008. Implications of shared edge length between land cover types for landscape quality: The case of Midwestern U.S., 1940-1998. *Landscape Ecology* 23: 391-402.
- Shao, G. and B.W. Duncan. 2007. Effects of band combinations and GIS masking on fire-scar mapping at local scales in East-Central Florida, USA. *Canadian Journal of Remote Sensing* 33 (4): 250-259.
- Shao, G., F. Wang, L. Dai, J. Bai, and Y. Li. 2006. A density-dependent matrix model and its applications in optimizing harvest schemes for a temperate forest in northeast China. *Science in China (Series E Technological Sciences)*, 49 Supp. 1: 108-117.
- Shao, G., H. Wang, L. Dai, G. Wu, Y. Li, R. Lang, and B. Song. 2005. Integrating stand and landscape decisions for multi-purposes of forest harvesting. *Forest Ecol. and Manage* 207(1-2): 233-243.
- Shao, G., G.R. Parker, A.V. Zhalnin, P. Merchant, and D. Albrightc. 2004. GIS protocols in mapping ecological landtypes for the Hoosier National Forest. *Northern Journal of Applied Forestry* 21(4): 180-186.
- Wu, W., G. Shao, and C. Lantican. 2003. An integration of GIS and modeling in selecting minimum areas for target biodiversity conservation. *Acta Ecologica Sinica* 23(7): 1258-1267.
- Zhao, G. and G. Shao. 2002. Logging restrictions in China: A turning point for forest sustainability. *J. Forestry* 100(4): 34-37.
- Shao, G., H. Bugmann, and X. Yan. 2001. A comparative analysis of the structure and behavior of three gap models at sites in northeastern China. *Climatic Change*. 51: 389-413.
- Zhang, P., G. Shao, G. Zhao, D. C. LeMaster, G. R. Parker, J. B. Dunning, and Q. Li. 2000. Ecology: China's forest policy for the 21<sup>st</sup> century. *Science* 288 (5474), June 23, 2135-2136.

### 👉 Selected 2 out of 6 Books

- Shao, G. and K.M. Reynolds (ed.). 2006. *Computer Applications in Sustainable Forest Management: including perspectives on collaboration and integration*. Springer, Netherland, 276 pp.

Shao, G., S. Zhao and H.H. Shugart. 1996. *Forest dynamics modeling: preliminary explanations of optimizing management of Korean pine forests*. China Forestry Publishing House (in Chinese with English Abstract, content list, and figure captions). 170 pp.

 **Selected 5 out of 12 Book Chapters**

Reynolds, K.M., M. Twery, M.J. Lexer, H. Vacik, D. Ray, G. Shao, and J.G. Borges. 2007. Decision Support Systems in Forest Management. In: *Handbook on Decision Support Systems 2*. F. Burstein and C.W. Holsapple (Editors), Springer, Netherland, P499-534.

Shao, G. and K.M. Reynolds (ed.). 2006. *Computer Applications in Sustainable Forest Management: including perspectives on collaboration and integration*. Springer, Netherland, 276 pp.

Shao, G. 2004. GIS Applications in ecological research. In: *Ecology: Review and Prospect*. W. Li and J. Zhao (Editors), Meteorological Publishing House, Beijing. P100-109.

Shao, G. and J. Ma. 2001. Asian Flora. In: *World Geography*. Ray Sumner (editor). P1579-1583. Salem Press.

Shao, G., L. Dai, G. Zhao, and S. Wang. 2000. Protection of the mixed forest. In: *Experts' Opinions on the Natural Forest Conservation Program*. P. Zhang and Q. Wang (editors). P333-341. China's Forestry Publication House (in Chinese).