

HANQIN TIAN

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a. Professional Preparation

Zhejiang University	Agronomy	B.S.	1982
Chinese Academy of Agri. Sci.,	Agronomy	M.S.	1986
State University of New York, Syracuse	Systems Ecology	Ph.D.	1996
Ecosystem center, MBL, Woods Hole	Global Ecology	Postdoc	1995-1998

b. Appointments:

2010-	Dixon Professor and Director	Intl. Center for Climate and Global Change Research, School of Forestry & Wildlife Sciences, Auburn University, Alabama
2007-2012	Alumni Professorship	Auburn University, Alabama
2003-present	Professor	School of Forestry & Wildlife Sciences, Auburn University
2008-present	Adjunct Professor	Dept of Computer Sci. & Soft. Engineering, Auburn University
2001-2003	Associate Professor	Dept. of Ecol. & Evol. Biol., University of Kansas, Lawrence
1998-2001	Staff Scientist,	The Ecosystems Center, MBL, Woods Hole, Massachusetts
1986-1988	Assistant Professor	China National Rice Research Institute, Hangzhou

c. Publications (Out of 160+ papers, Total citation: 7869; h-index: 42, Google Scholar, By Jan, 2015)

(i) Five Most Closely Relevant Publications:

- Tian, H.**, G. Chen· C. Lu· X. Xu· D. J. Hayes· W. Ren· S. Pan· D.N. Huntzinger· S.C. Wofsy (2014) North American terrestrial CO₂ uptake largely offset by CH₄ and N₂O emissions: Toward a full accounting of the greenhouse gas budget. *Climatic Change* DOI 10.1007/s10584-014-1072-9.
- Tian, H.**, C. Lu, G. Chen, B. Tao, S. Pan, S.J. Del Grosso, X. Xu, L. Bruhwiler, S.C. Wofsy, EA Kort and SA Prior (2012). Contemporary and projected biogenic fluxes of methane and nitrous oxide in terrestrial ecosystems of North America, *Frontiers in Ecology and the Environment* **10**: 528–536
- Tian, H.**, Banger, K., Tao, B., and Dadhwal, K.V. (2014) History of land use in India during 1880-2010: Large-scale land transformation reconstructed from satellite data and historical archives: *Global and Planetary Change* **121**, 76-88.
- Tian H.**, Lu, C., Chen, G., Xu, X., Liu, M., Ren, W., Tao, B., Sun, G., Pan, S., Liu, J. (2011b). Climate and land use controls over terrestrial water use efficiency in monsoon Asia. *Ecohydr.*, **4**, 322–340.
- Tian, H.**, C. Lu, J. Melillo, W. Ren, Y. Huang, X. Xu, M. Liu, C. Zhang, G. Chen, S. Pan, J. Liu and J. Reilly. 2012. Food benefit and climate warming potential of nitrogen fertilizer use in China. *Environ. Res. Lett.* **7** 044020 doi:10.1088/1748-9326/7/4/044020

(ii) Five Other Significant Publications

- Tian, H.**, G. Chen, C. Zhang, M. Liu, G. Sun, A. Chappelka, W. Ren, X. Xu, C. Lu, S. Pan, H. Chen, D. Hui, S. McNulty, G. Lockaby and E. Vance. 2012. Century-scale response of ecosystem carbon storage and flux to multifactorial global change in the Southern US. *Ecosystems* **15**:674-694.
- Liu, M., **H. Tian**, Q. Yang, J. Yang, X. Song, S.E. Lohrenz, W. Cai. 2013. Long-term trends in evapotranspiration and runoff over the drainage basins of the gulf of Mexico during 1901-2008. *Water Resources Research* **49**, 1988–2012, doi:10.1002/wrcr.20180.

- Tian, H.**, Melillo, J., Kicklighter, D., Pan, S., Liu, J., McGuire, A.D. and Moore III, B. (2003). Regional carbon dynamics in monsoon Asia and its implications to the global carbon cycle. *Global and Planetary Change* 37/3-4: 201-217.
- Schimel, D., Melillo, J., **Tian, H.**, McGuire, A.D., Kicklighter, D., Kittel, T., Rosenbloom, N., Running, S., Thornton, P., Ojima, D., Parton, W., Kelly, R., Sykes, M., Neilson R. and Rizzo B. (2000) Contribution of increasing CO₂ and climate to carbon storage by ecosystems in the United States. *Science* 287:2004-2006.
- Tian, H.**, Melillo, J., Kicklighter, D., McGuire, A.D., Helfrich, J., Moore III, B. and Vörösmarty, C.J. (1998). Effect of interannual climate variability on carbon storage in Amazonian ecosystems. *Nature* 396:664-667.

d. Synergistic Activities

- Founding Director, International Center for Climate and Global Change Research, Auburn University, 2010.
- Editor, *Ecosystem Health and Sustainability*, Joint Journal of Ecological Society of America and Ecological Society of China, 2014 – .
- Chair, Asian Ecology Session, Ecological Society of America (ESA), 2011-2012
- Primary Developer of well-known terrestrial ecosystem models (DLEM and TEM). Developed time-series data sets of land use history in China (1700-2005) and India (1880-2010), regional climate in China (1960-2010), nitrogen deposition in China (1950-2008) and nitrogen fertilizer use in China and India (1950-2010) for climate change and ecosystem modeling studies.
- Developed and coordinated two large interdisciplinary projects in China and Monsoon Asia funded by NASA. Since 1996, Dr. Tian has served as PI or co-PI for 30 projects totaling over **\$22 million** from NASA, NSF, USDA, EPA, DOE and others. Through developing and conducting these projects, Dr. Tian has established an international partnership with leading scientists from 20 countries in the Asian region.

e. Collaborators & Other Affiliations

i. Collaborators and Co-Editors

Art Chappelka (Auburn Univ.), Wei-Jun Cai (U.niv. of Del), Maryj Friedrichs (VIMS), Ruoying He (NCSU), David W. Kicklighter (MBL, Woods Hole), Atul Jain (UIUC), Yongqiang Liu (USDA Forest Service), Jiyuan Liu (Chinese Academy of Sci. -CAS), Steven Lohrenz (Univ. Mass), Jerry M. Melillo (MBL, Woods Hole), Jiaguo Qi (MSU), John Reilly (MIT), DeFries Ruth (Columbia Univ.), Karen Seto (Yale), Ge Sun (USDA Forest Service), Yuhang Wang (Georgia Institute of Tech.), Steven Wofsy (Harvard), Xiaoming Xiao (Univ. Oklahoma).

ii. Graduate and postgraduate advisors

Ph.D. Graduate Advisor: Dr. Charles A. S. Hall
 Postdoctoral Advisor: Dr. Jerry M. Melillo

iii. Thesis Advisor and Postgraduate-Scholar Sponsor

Graduate students (14): G. Chen, K. Banger, C. Lu, A. Lu, X. Song, W. Ren, J. Yang, Q. Yang, X. Xu, R. Xu, Z. Yao, C. Zhang, S. Dangkal, B. Zhang.

Postgraduate-Scholar Sponsor (14): H. Chen (Univ. of Illinois), D. Hui (Tennessee State Univ.), M. Liu (WSU), D. Lu (Michigan State Univ.), C. Lu, B. Tao, W. Ren (Auburn Univ.), J. Zhang, T. Liu, Z. Sun, C. Song, X. Wang (Chinese Academy of Sciences), F. Du, Y. Dang (NW A&F Univ.)