

Xiaojuan Yang

Postdoctoral Research Associate
Oak Ridge National Laboratory, Environmental Sciences Division
Phone: (865) 574-7615
Email: yangx2@ornl.gov

Education and Training

2009 University of Illinois at Urbana-Champaign, Atmospheric Sciences, PhD
2002 Nanjing University (China), Atmospheric Sciences, MS
1999 Nanjing Institute of Meteorology (China), Climatology, BS

Research and Professional Experience

2010-Present Post-Doctoral Research Associate Environmental Science Division, Oak Ridge National Lab, Oak Ridge, TN.
2009-2010 Post-Doctoral Research Associate. Department of Atmospheric Sciences, University of Illinois at Urbana- Champaign, Urbana, IL.
2002-2009 Research Assistant. Department of Atmospheric Sciences, University of Illinois at Urbana-Champaign, Urbana, IL.
1999-2002 Research Assistant. Department of Atmospheric Sciences, Nanjing University, Nanjing, Jiangsu, China.

Publications

1. Yang, X., Richardson, T. K., and Jain, A. K.: Contributions of secondary forest and nitrogen dynamics to terrestrial carbon uptake, *Biogeosciences Discuss.*, 7, 2739-2765, doi:10.5194/bgd-7-2739-2010, 2010.
2. Yang, X., V. Wittig, A. K. Jain, and W. Post (2009), Integration of nitrogen cycle dynamics into the Integrated Science Assessment Model for the study of terrestrial ecosystem responses to global change, *Global Biogeochem. Cycles*, 23, GB4029, doi:10.1029/2009GB003474.
3. Jain, A., X. Yang, H. Khesghi, A. D. McGuire, W. Post, and D. Kicklighter (2009), Nitrogen attenuation of terrestrial carbon cycle response to global environmental factors, *Global Biogeochem. Cycles*, 23, GB4028, doi:10.1029/2009GB003519.
4. Ito, Akinori, J. E. Penner, M. J. Prather, C. P. de Campos, R. A. Houghton, T. Kato, A. K. Jain, X. Yang, G. C. Hurtt, S. Frolking, M. G. Fearon, L. P. Chini, A. Wang, and D. T. Price (2008), Can we reconcile differences in estimates of carbon fluxes from land-use change and forestry for the 1990s? *Atmospheric Chemistry and Physics* Vol. 8, No 12, pp. 3291-3310.
5. Jain, A.K. and X. Yang (2005), Modeling the Effects of Two Different Land Cover Change Data Sets on the Carbon Stocks of Plants and Soils in Concert With CO₂ and Climate Change, *Global Biogeochemical Cycles*, 19, GB2015, doi:10.1029/2004GB002349.
6. Jain, A. K., T. O. West, X. Yang, and W. M. Post (2005), Assessing the impact of changes in climate and CO₂ on potential carbon sequestration in agricultural soils, *Geophys. Res. Lett.*, 32, L19711, doi:10.1029/2005GL023922.
7. Jain, A. K., Z. Tao, X. Yang, and C. Gillespie (2006), Estimates of global biomass burning emissions for reactive greenhouse gases (CO, NMHCs, and NO_x) and CO₂, *J. Geophys. Res.*, 111, D06304, doi:10.1029/2005JD006237.

Synergistic Activities

1. Referee, Global Change Biology (since 2009)
2. Referee, Climate Research (since 2009)
3. Member, American Geophysical Union (since 2003)

4. Co-chair, AGU Biogeosciences Session: “Role of Climate, Carbon and Limiting Nutrient Cycles, and Human Activities in the Terrestrial Ecosystems” 2009 Fall AGU Meeting, San Francisco, CA.

Honors and Awards

1. Ogura Student Research Paper Award, Department of Atmospheric Science, University of Illinois at Urbana-Champaign, April, 2010
2. Travel Award (\$1000) from American Geophysical Union (AGU) to attend *the 9th International Association of Meteorology and Atmospheric Sciences - Scientific Assembly* held in Beijing, China, August 2 – 11, 2005
3. Travel Support from the National Center for Atmospheric Research’s (NCAR) Advanced Study Program to attend 2007 Advanced Study Program’s Summer Colloquium, *Regional Biogeochemistry: Needs and Methodologies*, Boulder, CO. June 4-15, 2007