

Lianhong Gu

Scientist

Oak Ridge National Laboratory, Environmental Sciences Division

Phone: (865) 241-5925

Email: Lianhong-gu@ornl.gov

Education and Training

1998	University of Virginia, Environmental Sciences, PhD
1989	Chinese Academy of Sciences, Ecology, MS
1986	Xuzhou Normal University, Physics, BS

Research and Professional Experience

2009-Present	Senior Research and Development (R&D) Staff Scientist. Oak Ridge National Laboratory, Environmental Sciences Division.
2002-2009	R&D Staff Scientist (II, III). Oak Ridge National Laboratory, Environmental Sciences Division.
2000-2002	Project Scientist/Associate Specialist. University of California-Berkeley, Department of Environmental Sciences, Policy, and Management.
1998-2000	Research Associate. University of Virginia, Department of Environmental Sciences.
1995-1998	Graduate Research Assistant. University of Virginia, Department of Environmental Sciences.
1994-1995	Graduate Research Assistant. University of Maine-Orono, Department of Forest Ecosystem Science.
1986-1994	Graduate Research Assistant/Research Associate/Research Assistant Professor. Chinese Academy of Sciences, Institute of Geographic Sciences and Natural Resources Research (formerly Commission for Integrated Survey of Natural Resources).

Publications

1. Gu, L., S.G. Pallardy, K. Tu, B.E. Law, S.D. Wullschleger (2010) Reliable estimation of biochemical parameters from C3 leaf photosynthesis-intercellular carbon dioxide response curves. *Plant, Cell and Environment* (in press).
2. Zhou, B, L Gu, Y Ding, L Shao, Z Wu, X Yang, C Li, Z Li, X Wang, Y Cao, B Zeng, M Yu, M Wang, S Wang, H Sun, A Duan, Y An, X Wang, W Kong (2010) The Great 2008 Chinese ice storm, its socioeconomic-ecological impact, and sustainability lessons learned. *Bulletin of the American Meteorological Society* (accepted).
3. Yi, C, D Ricciuto, R Li, J Wolbeck, X Xu, M Nilsson, L Aires, JD Albertson, B Amiro, C Ammann, M Arain, A C de Araujo, M Aubinet, M Aurela, Z Barcza, A Barr, P Berbigier, J Beringer, C Bernhofer, AT Black, PV Bolstad, FC Bosveld, MSJ Broadmeadow, N Buchmann, SP Burns, P Cellier, J Chen, J Chen, P Ciais, R Clement, B D Cook, P S Curtis, D B Dail, K J Davis, E Dellwik, N Delpierre, A R Desai, S Dore, D Dragoni, B G Drake, E Dufrêne, A Dunn, J Elbers, W Eugster, M Falk, C Feigenwinter, L B Flanagan, T Foken, J Frank, J Fuhrer, D Gianelle, A Goldstein, M Goulden, A Granier, T Grünwald, L Gu, etc. (2010) Climate control of terrestrial carbon exchange across biomes and continents. *Nature* (in review).
4. Yang B, Pallardy SG, Meyers TP, Gu L-H, Hanson PJ, Wullschleger SD, Heuer M, Hosman KP, Riggs JS, Sluss DW (2010) Environmental Controls on Water Use Efficiency during Severe Drought in an OzarkForest in Missouri, USA. *Global Change Biology* (in press).
5. Xiao, J., Zhuang, Q., Law, B.E., Chen, J., Baldocchi, D.D., Cook, D.R., Oren, R., Richardson, A.D., Wharton, S., Ma, S., Martin, T.A., Verma, S.B., Suyker, A.E., Scott, R.L., Monson, R.K., Litvak, M., Hollinger, D.Y., Sun, G., Davis, K.J., Bolstad, P.V., Burns, S.P., Curtis, P.S., Drake, B.G., Falk, M., Fischer, M.L., Foster, D.R., Gu, L., Hadley, J.L., Katul, G.G., Matamala, R., McNulty, S., Meyers, T.P., Munger, J.W., Noormets, A., Oechel, W.C., Paw U, K.T., Schmid, H.P., Starr, G., Torn, M.S., Wofsy, S.C., 2010. A continuous measure of gross primary production for the conterminous U.S. derived from MODIS and AmeriFlux data. *Remote Sensing of*

- Environment 114(3): 576-591.
6. Hollinger, D.Y., S.V. Ollinger, A.D. Richardson, T.P. Meyers, D.B. Dail, M.E. Martin, N.A. Scott, T.J. Arkebauer, D.D. Baldocchi, K.L. Clark, P.S. Curtis, K.J. Davis, A.R. Desai, D. Dragoni, M.L. Goulden, L. Gu, G.G. Katul, S.G. Pallardy, K.T. Paw U, H.P. Schmid, P.C. Stoy, A.E. Suyker, and S.B. Verma (2009) Albedo estimates for land surface models and support for a new paradigm based on foliage nitrogen concentration. *Global Change Biology* 16 (2): 696-710.
 7. van Gorsel, E., N. Delpierre, R. Leuning, A. Black, J. W. Munger, S. Wofsy, M. Aubinet, C. Feigenwinter, J. Beringer, D. Bonal, B. Chen, J. Chen, R. Clement, K. J. Davis, A. Desai, D. Dragoni, S. Etzold, T. Grünwald, L. Gu, B. Heinesch, L. R. Hutyra, W.W.P. Jans, W. Kutsch, B.E. Law, M. Y. Leclerc, I. Mammarella, L. Montagnani, A. Noormets, C. Rebmann, W. Sonia (2009) Estimating nocturnal ecosystem respiration from the vertical turbulent flux and change in storage of CO₂. *Agricultural and Forest Meteorology* 149: 1919-1930.
 8. Román, M.O., C.B. Schaaf, X. Yang, C.E. Woodcock, A.H. Strahler, R.H. Braswell, P.S. Curtis, K.J. Davis, D. Dragoni, M.L. Goulden, L. Gu, D.Y. Hollinger, T.E. Kolb, T. P. Meyers, J.W. Munger, J.L. Privette, A.D. Richardson, T.B. Wilson, and S.C. Wofsy (2009) The MODIS (Collection V005) BRDF/Albedo Product: Assessment of spatial 6 representativeness over forested landscapes. *Remote Sensing of Environment* 113: 2476-2498.
 9. Gu, L., W. M. Post, D. D. Baldocchi, T. A. Black, A. E. Suyker, S.B. Verma, T. Vesala, and S. C. Wofsy (2009) Characterizing the seasonal dynamics of plant community photosynthesis. In: *Phenology of Ecosystem Processes: Applications in Global Change Research*, A. Noormets, Editor, Springer, New York, 275p.
 10. Noormets, A., J. Chen, L. Gu, and A. Desai (2009) The phenology of gross ecosystem productivity and ecosystem respiration in temperate hardwood and conifer chronosequences. In: *Phenology of Ecosystem Processes: Applications in Global Change Research*, A. Noormets, Editor, Springer, New York, 275p.

Synergistic Activities

1. 2009, panel member for DOE early Career Grants
2. 2008-present, oversea expert to the Chinese Academy of Forestry
3. 2008, session on "Climate Variability, Extreme Events, and Biospheric Impacts and Feedbacks," American Geophysical Union Fall Meeting, San Fransisco
4. 2007, NASA Carbon cycle and Ecosystems panel member
5. 2006, reviewer, National Science Foundation

Awards

1. 2004, United States Presidential Early Career Award Nominee
2. 2004, Stanley I Auerbach Award for Excellence in Environmental Sciences, Environmental Sciences Division, Oak Ridge National Laboratory
3. 2004, World Meteorological Organization Norbet-Gerbier Mumm Award
4. 2004, Outstanding Early Career Award Finalist, UT-Battelle
5. 1997, Outstanding Graduate Student in Ecology, Department of Environmental Sciences, University of Virginia