

HUEI-JIN WANG

hjwang@lbl.gov

EDUCATION / ACHIEVEMENTS

Virginia Tech

Blacksburg, VA

Ph.D., Forestry, Dec. 2010

University of Idaho

Moscow, ID

M.S., Forest Resources, May 2006

M.S., Statistics, May 2006

National Taiwan University

Taipei, Taiwan

B.S., Forestry, Jun 1999

PUBLICATIONS / PRESENTATIONS

- Wang, H.J., Radtke, P.J., Prisley, S.P., 2011. Coarse woody debris in southern United States loblolly pine plantations: from stand-level to regional scales. *Southern Journal of Applied Forestry* 35 (4): 161-169.
- Wang, H.J., Prisley, S.P., Radtke, P.J., Coulston, J., 2011. Errors in terrain-based model predictions caused by altered forest inventory plot locations in the Southern Appalachian Mountains, USA. *Forest Biometry, Mathematical and Computational Forestry and Natural Resource Science* 3(2): 114-123.
- Wang, H.J., Radtke, P.J., Prisley, S.P., 2010. Long-term simulations of forest management impacts on carbon storage from loblolly pine plantations in the southern U.S. *Forest Inventory and Analysis (FIA) Symposium 2010*; October 5-7, 2010; Knoxville, TN.
- Prisley, S.P., Wang, H.J., Radtke, P.J., Coulston, J., 2009. Combining FIA plot data with topographic variables: Are precise locations needed? In: McWilliams, W.; Moisen, G.; Czaplowski, R. (Eds.), *Forest Inventory and Analysis (FIA) Symposium 2008*; October 21-23, 2008; Park City, UT. Proc. RMRS-P-56CD. Fort Collins, CO: U.S.D.A. Forest Service, Rocky Mountain Research Station. 10 p.
- Maa, C.J.W., Wang, H.J., Lin, H.J. 2006. Impacts of catastrophic earthquakes on the insect communities in estuarine mangroves, northern Taiwan. pp. 415-427 In: Hawksworth, D.L.; Bull, A.T. (Eds.), *Arthropod Diversity and Conservation*. Springer, Netherland.
- Maa, C.J.W., Wang, H.J., Lin, H.J. 2006. Impacts of catastrophic earthquakes on the insect communities in estuarine mangroves, Northern Taiwan. *Biodiversity and Conservation*, 15: 429-441.
- Maa, C.J.W., Wang, H.J., Liu, C.F., 2004. Variation in carboxylesterase frequency

and insecticide resistance of *Plutella xylostella* L. as a response to environmental gradients. pp. 333-344 In: Ridland, P.; Endersby, M.N. (Eds.), *Management of Diamondback moth and Other Crucifer Pests: The Proceedings of the 4th International Workshop*. November 26-29, 2001. Melbourne, Australia.

RESEARCH EXPERIENCES

Post-Doctoral Associate

Jul. 2012 – Present

Climate Change, Lawrence Berkeley National Lab
Berkeley, CA

- Apply quantitative analysis to flux uncertainty problem

Post-Doctoral Associate

Feb. 2011 – Dec. 2011

Forest Resources and Environmental Conservation, Virginia Tech
Blacksburg, VA

- Quantify uncertainty of carbon trends in land cover/use of the coterminous USA

Graduate Research Assistant

Aug. 2007 – Dec. 2010

Forest Resources and Environmental Conservation, Virginia Tech
Blacksburg, VA

- Quantify forest carbon and harvested carbon in managed loblolly pine forests across the southern United States by linking inventory data to existing empirical forest models

Graduate Research Assistant

Jan. 2004 – May 2005

Forest Resources, University of Idaho
Moscow, ID

- Model tree-crown recession using linear mixed-effects models

Research Assistant

Nov. 1999 – Aug. 2003

Institute of Zoology, Academia Sinica
Taipei, Taiwan

- Assist research on diversity of insect communities in mangroves
- Assist research on insecticide resistance of diamondback moth that accounts for local-specific occurrence of carboxylesterase

TEACHING EXPERIENCES

Teaching Assistant

Aug. 2007 – Dec. 2009

Forest Resources and Environmental Conservation, Virginia Tech

Blacksburg, VA

- Introductory land and field measurements
- GIS applications in natural resource management

Teaching Assistant

Jun 2006 – Jul. 2007

Health Care Organization Administration, National Taiwan University
Taipei, Taiwan

- Simulation Analysis in Health Care Organization

Teaching Assistant

Aug. 2005 – May 2006

Statistics, University of Idaho
Moscow, ID

- Statistical methods
- Probability and Statistics

QUALIFICATIONS

- Expertise in the application of statistical models and spatial assessment to natural resources management
- Considerable experience in manipulating large datasets such as forest inventory data
- Strong skills in programming (SAS and R) and geographic information systems (ArcGIS and IDRISI Taiga)

AWARDS/RECOGNITIONS

- Annual Forestry Graduate Symposium Poster Award, 2009. Carbon storage of coarse woody debris produced in loblolly pine plantations of the Southern United States: from stand-level to regional scales (Virginia Tech)
- American Statistical Association One-Year Membership Award, 2006 (U of Idaho)
- Presidential Awards, 1996 and 1998 (National Taiwan University)