

Curriculum Vitae

Guang-You Hao

E-mail: guangyou_hao@hks.harvard.edu

16 Divinity Ave. RM 3107 Biological Laboratories, Harvard University,
Cambridge, MA, USA 02138

Education

- 2005- University of Miami, Coral Gables, Florida, USA
2010 Department of Biology (Advisor: Dr. Guillermo Goldstein)
Doctor of Philosophy, May 2010
- 2003- Graduate University of Chinese Academy of Sciences, Beijing, China
2009 Xishuangbanna Tropical Botanical Garden (Advisor: Dr. Kun-Fang Cao)
Doctor of Philosophy, December 2009
- 1999- Southwest China Normal University, Chongqing, China
2003 Department of Biology
Bachelor of Science, June 2003

Professional appointments and field research experience

- 2010- Harvard University, Department of Organismic and Evolutionary Biology
present Postdoctoral Fellow (Advisor: Dr. Noel Michele Holbrook)
- 2010 (Dec.) USDA-ARS-Jornada Experimental Range in Chihuahuan Desert
Las Cruces, New Mexico, USA
- 2005- Biscayne National Park Mangrove Study Site, Miami, Florida, USA
2010 Fairchild Tropical Botanical Garden, Miami, Florida, USA
Everglades National Park, Miami, Florida, USA
- 2007- Xishuangbanna Tropical Botanical Garden, Yunnan, China
2009 Savanna Valley Research Site, Yunnan, China
- 2008 (Jan-Apr) Barro Colorado Island, Smithsonian Tropical Research Institute, Panama
- 2007 (May-July) National University of Patagonia San Juan Bosco and Patagonian Cold
Winter Desert Research Site, Comodoro Rivadavia, Argentina
- 2006 (May-July) Nature Reserve of Brazilian Institute of Geography and Statistics, Brazil

Teaching experience

- 2010 Department of Biology, University of Miami, Undergraduate Biological
Laboratories

Fellowships, Honors and Awards

- 2010-present Giorgio Ruffolo Postdoctoral Fellowship, Sustainability Science Program, Center for International Development, Harvard University
- 2010 The Dean's Award, Chinese Academy of Sciences
- 2008-2009 BHP Billiton scholarship
BHP Billiton (Australia) and Chinese Academy of Sciences
- 2008 Short term fellowship, Smithsonian Tropical Research Institute
- 2008 K. Tosney Award of Outstanding Graduate Paper, University of Miami

Publications

Guang-You Hao, Guillermo Goldstein, Lawren Sack, N. Michele Holbrook, Zhi-Hui Liu, Ai-Ying Wang, Zhi-Hui Su, Rhett D. Harrison, Kun-Fang Cao. Ecology of hemiepiphytism in fig species is based on evolutionary coordination of hydraulics and carbon economy. **Ecology**. In Press.

Guang-You Hao, Ai-Ying Wang, Zhi-Hui Liu, Augusto C. Franco, Guillermo Goldstein, Kun-Fang Cao. Differentiation of photochemistry between hemiepiphytic and non-hemiepiphytic *Ficus* species with contrasting xylem hydraulic conductivity. **Tree Physiology**. doi:10.1093/treephys/tpr035.

Guang-You Hao, Lawren Sack, Ai-Ying Wang, Kun-Fang Cao and Guillermo Goldstein. Differentiation of leaf water flux and drought tolerance traits in hemiepiphytic and non-hemiepiphytic *Ficus* tree species. **Functional Ecology**. 2010. 24:731-740.

Guang-You Hao, Tim J. Jones, Corene Luton, Yong-Jiang Zhang, Eric Manzane, Fabian G. Scholz, Sandra J. Bucci, Kun-Fang Cao and Guillermo Goldstein. Hydraulic redistribution in dwarf *Rhizophora mangle* trees driven by interstitial soil water salinity gradients: impacts on hydraulic architecture and gas exchange. **Tree Physiology**. 2009. 29:697-705.

Yong-Jiang Zhang, Frederick C. Meinzer, **Guang-You Hao**, Fabian G. Scholz, Sandra J. Bucci, Frederico S. C. Takahashi, Randol Villalobos-Vega, Juan P. Giraldo, Kun-Fang Cao, William A. Hoffmann and Guillermo Goldstein. Size-dependent mortality in a Neotropical savanna tree: the role of height-related adjustments in hydraulic architecture and carbon allocation. **Plant, Cell and Environment**. 2009. 32:1456-1466.

Guang-You Hao, William A. Hoffmann, Fabian G Scholz, Sandra J. Bucci, Frederick C. Meinzer, Augusto C. Franco, Kun-Fang Cao, Guillermo Goldstein. Stem and leaf hydraulics of congeneric tree species from adjacent tropical savanna and forest ecosystems. **Oecologia**. 2008.155:405–415.

Sandra J. Bucci, Fabian G. Scholz, Guillermo Goldstein, Frederick C. Meinzer, Augusto, C. Franco, Yongjiang Zhang and **Guang-You Hao**. Water relations and hydraulic architecture in Cerrado trees: adjustments to seasonal changes in water availability and evaporative demand. **Brazilian Journal of Plant Physiology**. 2008. 20(3):233-245.

Conferences

- 2011 International Symposium on Climate Change and Forest Biodiversity Conservation, Beijing China
- 2010 Annual Meeting of the Botanical Society of America, Providence, Rhode Island, USA
- 2008 International Symposium on Biodiversity Conservation Xishuangbanna, Yunnan, China (poster presentation)
- 2007 Annual Meeting of the Association for Tropical Biology and Conservation, Morelia, Mexico (poster presentation)

Skills in Field and Laboratory Electronic Equipments:

Campbell Scientific CR10X datalogger for data record and experimental control; Campbell Scientific AM16/32 multiplexer; Granier sap flow measuring system; Heat-pulse sap flow measuring system; a variety of sensors including pressure transducers, temperature sensors, quantum sensors, and humidity sensors; xylem hydraulic conductivity measuring systems including High-Pressure Flow Meter system for measuring leaf hydraulic conductance; LabVIEW (Laboratory Virtual Instrumentation Engineering Workbench) visual programming language from National Instruments; LI-6400 photosynthesis system; Mini-PAM fluorescence system