

**Genhua Niu, Associate Professor**

Urban Landscape Water Conservation, Department of Horticultural Sciences  
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**Education**

**Ph.D.** 1997, Department of Horticulture, Chiba University, Japan (Horticulture)  
**M.S.** 1987, Department of Agricultural Engineering, Zhejiang University, China  
(Agricultural Engineering)  
**B.S.** 1984, Department of Agricultural Engineering, Zhejiang University, China  
(Agricultural Engineering)

**Professional Experience**

**Associate Professor**, 09/2010 to present, Urban Landscape Water Conservation,  
AgriLife Research and Extension Center at El Paso, Texas AgriLife Research,  
Department of Horticultural Sciences, Texas A&M University System, TX

**Assistant Professor**, 05/2004 – 08/2010, Urban Landscape Water Conservation,  
AgriLife Research and Extension Center at El Paso, Texas AgriLife Research,  
Department of Horticultural Sciences, Texas A&M University System, TX

**Adjunct Assistant Professor**, 03/2009 – present, Department of Plant and Soil Science,  
Texas Tech University

**Adjunct Assistant Professor**, 01/2006 – present, Department of Plant and  
Environmental Sciences, New Mexico State University, Las Cruces, NM

**Visiting Scientist**, 02/2003 – 04/2004, Modeling water stress and CO<sub>2</sub> enrichment of corn  
crop, USDA –ARS (Agricultural Research Service), Beltsville, MD

**Research Director**, 09/2001 – 01/2003, Micropropagation and Nursery Production,  
Southern Sun BioSystems, Inc., SC

**Research Associate**, 08/1998 – 08/2001, Ornamental plant production under controlled  
environment, Department of Horticulture, Michigan State University, East Lansing, MI

**Post-Doctor Fellow**, Modeling and Environmental Control in Micropropagation,  
04/1997 – 08/1998, Japan Society for Promotion of Science (JSPS), Department of  
Horticulture, Chiba University, Matsudo, Japan

## Area of Expertise

- Drought, salt and heat tolerance of ornamental and other agricultural crops
- Greenhouse and growth chamber environmental control for plant production
- Photoautotrophic micropropagation

## Peer-Reviewed Journal Publications

- Niu, G., D.S. Rodriguez, E. Call, P. Bosland, A. Ulery, and E. Acosta. 2010.** Responses of eight chile peppers to saline water irrigation. *Scientia Horticulturae* 126:215–222.
- Niu, G., D.S. Rodriguez, K. Crosby, D. Leskovar, and J. Jifon. 2010.** Rapid screening for relative salt tolerance among chile pepper genotypes. *HortScience* 45(8):1192–1195.
- Niu, G., D.S. Rodriguez, R. Cabrera, J. Jifon, D. Leskovar, and K. Crosby. 2010.** Salinity and soil type effects on emergence and growth of pepper seedlings. *HortScience* 45(8):1265–1269.
- Niu, G., D.S. Rodriguez, and M. Gu. 2010.** Salinity tolerance of *Sophora secundiflora* and *Cercis canadensis* var. *Mexicana*. *HortScience* 45(3):424-427.
- Miyamoto, S., **G. Niu**, I. Martinez. 2010. Salinity and specific ion effects on onion establishment in relation to disposal of desalting concentrates. *Desalination and Water Treatment* 16:381-392.
- Niu, G., D.S. Rodriguez, and T. Starman. 2010.** Response of bedding plants to saline water irrigation. *HortScience* 45(4):628-636.
- Niu, G. and R.I. Cabrera. 2010.** Growth and physiological responses of landscape plants to saline water irrigation – a review. *HortScience* (in press).
- Niu, G. and D.S. Rodriguez. 2009.** Growth and physiological responses of four rose rootstocks to drought stress. *Journal of American Society for Horticultural Science* 134(2):202-209.
- Niu, G. and D.S. Rodriguez. 2008.** Responses of growth and ion uptake of four rose rootstocks to chloride or sulfate dominated salinity. *Journal of American Society for Horticultural Science* 133(5):633-669.
- Niu, G., D.S. Rodriguez, and L. Aguiniga. 2008.** Effect of saline water irrigation on growth and physiological responses of three rose rootstocks. *HortScience* 43(5):1479-1484.
- Niu, G., D.S. Rodriguez, and W. Mackay. 2008.** Growth and physiological responses to drought stress in four oleander clones. *Journal of American Society for Horticultural Science* 133(2):188-196.
- Yen, C. Y.T., T. Starman, Y.T. Wang, A. Holzenburg, and **G. Niu. 2008.** Timing of nutrient termination and reapplication for growth, flower initiation, and flowering of the nobile dendrobium orchid. *Journal of American Society for Horticultural Science* 133(4):501-507.
- Yen, C. Y.T., T. Starman, Y.T. Wang, and **G. Niu. 2008.** Effects of cooling temperature and during on flowering of the nobile dendrobium orchid. *HortScience*. 43(6):1765-1769.
- Niu, G., D.S. Rodriguez, W. Mackay, and L. Aguiniga. 2007.** Salinity tolerance of *Lupinus havardii* and *L. texensis*. *HortScience* 42(3):526-528.