

Genhua Niu, Professor

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Education Background

Ph.D. Horticultural Engineering, Chiba University, Japan
M.S. Agricultural Engineering, Zhejiang University, Hangzhou, China
B.S. Agricultural Engineering, Zhejiang University, Hangzhou, China

Professional Experience

2016 to present: Professor, Urban landscape water conservation
2010 to 2016: Associate Professor, Urban landscape water conservation
2004 to 2010: Assistant Professor, Urban landscape water conservation
2003 to 2004: Visiting Scientist, USDA –ARS, Beltsville, MD
2001-2003: Research Director, Southern Sun BioSystems, Inc., SC
1998 to 2001: Research Associate, Horticulture, Michigan State University
1997-1998: Japan Society for Promotion of Science, Post-doc fellow, Chiba Univ, Japan

Highlights of Achievements

Research

- Published 108 refereed papers, 2 books, 16 book chapters, 48 editor-reviewed (proceedings) papers, 21 industry/extension papers, and 149 abstracts.
- Delivered 39 invited international, 31 invited national/local presentations and 149 volunteer presentations at scientific conferences and universities.

Teaching

- Co-advised 5 Ph.D. (2 TAMU, & 3 non-TAMU) and 3 MS students; served on graduate committee for 3 Ph.D. and 7 MS graduate students.
- Guest lecture: 19
- Supervised and trained 42 undergraduate students, student workers, and research assistants; and 3 technicians, 2 research associates and 5 visiting scientists.

Service

- Guest Editor for special issue on “Plant Production under Controlled Environment” for Horticulturae
- Guest Editor for special issue on “Management of Plants and Water for Sustainable Landscapes” for Agronomy
- Reviewed 15 to 20 manuscripts annually; have reviewed for 20+ scientific journals.
- Reviewed proposals for USDA-NIFA, US Bureau of Reclamation (USBR), Horticultural Research Institute (HRI), Civilian Research and Development Foundation (CRDF),

National Science Foundation (NSF) of China, New Mexico State University (NMSU), Ohio State University (OSU), and Louisiana State University (LSU).

- Society service: Officer for Working Groups and award selection chair/committee member for Annual Conference of American Society for Horticultural Science (ASHS); Officer for USDA regional meetings (NC1186 and WERA1013).

Awards and Recognitions:

- **2018** ASHS Outstanding Ornamental Publication Award winner for the 2017 publication “Morphological and Physiological Responses of Ten Ornamental Taxa to Saline Water Irrigation” [HortScience 52(12):1816-1822]. (Correspondent and key contributor)
- **2016** Kenneth Post Award of ASHS (co-author): 'Development of a Rapid Screening Method for Selection Against High Temperature Susceptibility in Garden Roses' by Ockert Greyvenstein, Terri Starman, Brent Pemberton, Genhua Niu, and David Byrne.
- **2016** Recipient of the Julian C. Miller Sr. Distinguished Research Award, Southern Region ASHS.
- **2016** Texas A&M AgriLife Extension Superior Service Awards, Team member for Texas Strawberry project, Lead PI: Russ Wallace.
- Extension Communications Award, Southern Region ASHS. Mengmeng Gu, Dotty Woodson, Bart Drees, Steve George, Joe Masabni, Monte Nesbitt, Kevin Ong, Tony Provin, Benjamin Wherley, Doug Welsh, **Genhua Niu**, John Pitt, Christin LaChance, Charriss York, Richard White, James Thomas, Charles Fontanier, Jonathan Smith, Reagan Hejl. **2014**. Earth-Kind Landscape Management.
- Bridge Fellow of Japan Society for Promotion of Science, **2010**. Hosted by Chiba University from Nov. 6 to Dec. 11, 2010.
- USDA CSREES National Water Program Award for Outstanding Integrated Activities for Water Resources, Rio Grande Basin Initiative, Team Member, **2007**. The first USDA national teamwork award for integrated water resources, ranked number 1 out of 37 nominations.
- Vice Chancellor’s Award in Excellence, Rio Grande Basin Initiative, Team Member, **2006**, Texas A&M University Agriculture Program.
- Post-doctoral Research Fellow of Japan Society for Promotion of Science (JSPS), 1997 - 1998, Chiba University, Japan.
- Japanese Government Scholarship Recipient, 1992 –1997, Chiba University, Japan.

Active grants:

- Alternative irrigation water sources for sustainable nursery production and urban landscapes, since 2014, around \$31,000 per year, USDA-ARS, FNRI (Floriculture and Nursery Crops Research Initiative). PI
- Advancement of intelligent spray application technologies in pecan orchards, \$3,672,482 (\$139,171 to Niu lab), 10/2015 to 09/2020.
- Diversifying the Water Portfolio for Agriculture in the Rio Grande Basin, 01/01/2017 to 12/31/2021. \$273,811 (total of \$5 million).
- Developing alternative water sources for bioenergy crops production on marginal lands. Sun Grant Initiative, 01/ 2017-12/2018, \$150,000 (Niu lab: 20,000). Co-PI

- Agricultural water conservation through an automated system for monitoring soil moisture and controlling irrigation using low-cost microcontroller, TWDB, 09/2017-04/2021, \$193,499 (Niu lab: \$31,420). Co-PI
- Developing Texas pomegranate industry through cultivar trials and statewide outreach, 12/2017-12/2018, \$57,983 (Niu lab: \$35,900). PI

PUBLICATIONS – SUMMARY TABLE

Type	Prior to TAMU	2004-2015	Since 2016	Career Total
Refereed/Peer-reviewed	13	68	27	108
Editor-reviewed/proceedings	7	35	6	48
Books	0	2	0	2
Book Chapters	4	10	2	16
Popular/Industry articles	8	4	9	21
Abstracts	24	87	38	149