

## **GIRISHA K. GANJEGUNTE**

Professor

Texas A&M AgriLife Research Center at El Paso  
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### **EXPERIENCE**

**Professor, 09/2019- Present; Associate Professor, 09/2012-08/2019; Assistant Professor, 03/2006-08/2012.** Texas A&M AgriLife Research and Extension Center at El Paso, Dept. Soil & Crop Sciences, Texas A&M University System. Conducting research on water and salinity management in the Far West Texas.

**Research Scientist (Post-Doctoral), 01/2003-03/2006.** Department of Renewable Resources, University of Wyoming, Laramie, Wyoming. Conducted research on management of coalbed natural gas (CBNG) water with elevated salinity in the Powder River Basin (PRB) covering parts of Wyoming and soil carbon sequestration in different ecosystems (rangelands, forest, and reclaimed coal mine lands).

**Research Associate, 05/1993-01/2003.** Tata Energy Research Institute (TERI), New Delhi, India. Carried out multidisciplinary research related to improved agricultural practices, natural resources management at a watershed scale, evaluation of reclamation practices in open cast coal and lignite mines, identification and management of problematic soils, and climate change impacts on soil-water resources.

### **Professional Awards, and Services**

- Awarded the 2018 Research Faculty Special Achievement Award by the Department of Soil and Crop Sciences, Texas A&M University
- Associate Editor, Journal of Environmental Quality, Jan 2018- Present.
- ASA, CSSA, SSSA Book and Multimedia Publishing Committee-Member (June 2013-December 2018) and Chair from January 2020.
- Special Honor, International Conference on Resilient Agriculture in Saline Environments under Changing Climate: Challenges & Opportunities (RAISE-II) held during Golden Jubilee of Central Soil Salinity Research Institute, Indian Council of Agricultural Research during 21-23 February 2019 at Karnal, Haryana, India.
- Nominated by Texas Water Resources Institute to represent Texas A&M AgriLife Research in the Global Framework on Water Scarcity in Agriculture (WASAG) Task force, Food and Agriculture Organization (FAO), United Nations.
- Invited by eminent scientists in India to contribute a chapter for a book (published by Springer) that was released on the occasion of Golden Jubilee of India's premier institute of salinity research – Central Soil Salinity Research Institute, Indian Council for Agricultural Research, Karnal, Haryana to be held in February 2019.
- Invited by USAID for consultancy work on salinity assessment and management in cotton growing areas of Azerbaijan - 2018
- Served on editorial board of different international journals.
- Grant reviewer -Earth and Life Sciences, Netherlands Organization for Scientific Research, the Netherlands; Wyoming Agriculture Experiment Station Competitive Grants Program; Kearney Foundation of Soil Science

- Chair, Outstanding Young Agricultural Scientist Award Committee, Association of Agricultural Scientists of Indian Origin (AASIO)
- Technical and Review Committee member of Asia-Pacific Chemical, Biological & Environmental Engineering Society
- Co-chair of four graduate student committees, trained 26 undergraduates on lab, greenhouse and field protocols, and supervised four full time technicians.

### **Accomplishments:**

#### **Teaching:**

I have 100% appointment with Texas A&M AgriLife Research and located at El Paso Center, which is about 700 miles from the main campus, but I strongly believe in the importance and benefits of teaching as complementary to a vibrant research program. To date I have mentored and trained 28 part-time student workers, one postdoc, four technicians and served on seven graduate student committees.

#### **Research:**

To date my program has received a total funding of \$12.3 million, of which about \$1.6 million is directly attributed to my research. The sources of these grant funds are diverse - industry, local, state, federal agencies and international sources.

My program has produced a total of 200 publications including 46 peer journal articles, 4 book chapters, 25 technical reports, 20 invited presentations, 9 peer-reviewed meeting proceedings, 86 published meeting proceedings and abstracts, and 11 project factsheets. Many of my articles are published in reputed international peer-reviewed journals that **have high impact on research**, as evidenced by an average **impact factor** of **3.93** for the journals listed below as per the 2016 ISI Journal Citation report.

Research results from my program are being used by the scientific community around the world. According to google scholar as of date my research results have been cited 1233 times and I have an H index of 19 and I index of 29. As per “www.researchgate.net”, a popular discussion and information exchange website widely used by researchers around the globe, my research score was rated higher than 85% of its members. Furthermore, my research has been cited by scientists from around the world - Oceania (Australia, New Zealand), Asia (e.g., China, India, Thailand), middle east (Saudi Arabia, UAE, Oman, Iran, Israel), Africa (e.g. Egypt, Nairobi, Tunisia), eastern and western Europe (e.g., Great Britain, France, Sweden, Switzerland, Spain, Poland, Russia, Estonia), south America (e.g. Brazil) and North America (Mexico, USA and Canada).

## **RECENT PUBLICATIONS**

1. Hooks, T., G. Niu, and G. Ganjegunte. 2019. Seedling Emergence and Seedling Growth of Mustard and Rapeseed Genotypes under Salt Stress. *Agrosystems, Geosciences & Environment* 2, 190062.
2. Chavez, J.C., J. Enciso, S. Zapata, G. Ganjegunte, N. Rajan and V.P. Singh. 2019. Growth response and productivity of sorghum for bioenergy production in south Texas. *Transactions of ASABE* 62:1207-1218.
3. Suthar, J. D., I. Rajpar, G.K. Ganjegunte, Z. Shah, G. Niu, and K. Grover. 2019. Germination, growth and ion uptake of fifteen guar (*Cyamopsis tetragonoloba* L.) accessions under elevated salinity. *Agrosystems, Geosciences & Environment* 2, 190020.
4. Enciso J., Jarlos Chavez, Girisha Ganjegunte. 2019. Energy Sorghum Production under Arid and Semi-Arid Environments of Texas. *Water* 11, 1344.
5. Abudu, Z., Z. Sheng, and **G.K. Ganjegunte**. 2019. Impacts of graywater irrigation and soil conditioning with mulch on cotton growth and soil properties. *Water Supply* 75:1080-1087 (Impact factor: **0.922**) (Accepted, <https://doi.org/10.2166/ws.2018.160>).
6. **Ganjegunte, G.K.**, G. Niu, A. Ulery, Y. Wu. 2019. Organic carbon and nutrients dynamics in saline soils under energy sorghum irrigated with treated municipal wastewater. *Archives of Agronomy and Soil Science* 65:345-359
7. **Ganjegunte, G.**, and J. Clark. 2019. Causes and Management of Root-zone Salinity and Sodicity in the Arid West Texas: Field-scale Experience. Pp 307-330. In: Dagar J., Yadav R., Sharma P. (eds) Research Developments in Saline Agriculture. Springer, Singapore.
8. **Ganjegunte, G.K.**, J.A. Clark, M. Parajulee, S. Kumar and J. Enciso. 2018. Evaluation of sulfur burner for salinity management in irrigated cotton fields in the arid west Texas. *Agrosystems, Geosciences & Environment* 1:180006. DOI:10.2134/age2018.04.0006.
9. Niu, G., Y. Sun, Y. J.G. Masabni, and **G.K. Ganjegunte**. 2018. Relative salt tolerance of 22 pomegranate (*Punica granatum*) cultivars. *Hortscience* 53:1513-1519.
10. Abudu, S., Z. Sheng, and **G.K. Ganjegunte**. 2018. Assessing vegetable growth and yield response to graywater irrigation. *American Journal of Agricultural Research* 3:19. DOI:10.28933/ajar-2018-06-0501.
11. Sun, Y., G. Niu, **G.K. Ganjegunte** and Y. Wu. 2018. Salt tolerance of six switchgrass cultivars. *Agriculture* 8:66 doi:10.3390/agriculture8050066.
12. Suthar, J. D., I. Rajpar, **G.K. Ganjegunte** and Zia-ul-hassan. 2018. Evaluation of guar (*Cyamopsis tetragonoloba* L.) genotypes performance under different irrigation water salinity levels: Growth parameters and seed yield. *Industrial Crops and Products* 123:247–253.
13. Suthar, J. D., I. Rajpar, **G.K. Ganjegunte** and Zia-ul-hassan. 2018. Comparative study of early growth stages of 25 guar (*Cyamopsis tetragonoloba* L.) genotypes under elevated salinity. *Industrial Crops and Products* 123:164–172.
14. **Ganjegunte, G.K.**, G. Niu, A. Ulery, and Y. Wu. 2018. Treated urban wastewater irrigation effects on bioenergy sorghum biomass, quality and soil salinity in an arid environment. *Land Degradation & Development* 29:534–542.

15. Cox, C., L. Jin, **G. K. Ganjegunte**, D. Borrok, V. Lougheed, and L. Ma. 2018. Soil quality changes due to flood-irrigation in agricultural fields along the Rio Grande in western Texas. *Applied Geochemistry* 90:87-100.
16. **Ganjegunte, G.K.**, G. Niu, A. Ulery, Y. Wu. 2018. Organic carbon, nutrient, and salt dynamics in saline soil and switchgrass (*Panicum virgatum* L.) irrigated with treated municipal wastewater. *Land Degradation & Development* 29: 80-90.