

## **Murali K. Darapuneni, Ph.D.**

**Title: Professor**

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### **A. Education/Training**

| INSTITUTION AND LOCATION                   | DEGREE | YEAR (s) | FIELD OF STUDY                         |
|--------------------------------------------|--------|----------|----------------------------------------|
| Texas A&M University, College Station, TX  | Ph.D.  | 2012     | Agronomy                               |
| West Texas A&M University, Canyon, TX      | M.S.   | 2008     | Plant, Soil, and Environmental Science |
| Acharya N.G. Ranga Agricultural University | B.Sc   | 2005     | Horticulture                           |

### **B. Research & Professional Experience**

- Professor, New Mexico State University, 2026-Current
- Associate Professor (Tenured), New Mexico State University, 2020-2026
- Assistant Professor, New Mexico State University, 2014-2020
- Post-Doctoral Research Associate, University of Nebraska, Scottsbluff, NE, 2013-2014
- Graduate Research Assistant, Texas A&M University, College Station, TX, 2008-2012
- Graduate Research Assistant, West Texas A&M University, Canyon, TX, 2006-2008

### **C. Research Focus**

Developing novel cropping systems for arid and semi-arid regions of New Mexico. Developing sustainable, economic, and environment-friendly methods of soil and crop management to enhance water and nutrient efficiency and crop productivity in New Mexico.

### **D. Synergistic Activities**

- Authored and coauthored more than 65 peer reviewed publications and about 40 abstracts
- Multi-million-dollar research grants in extramural funding
- Presented at several national and international conferences both as invited and professional speaker
- Advised at least 15 graduate students at MS and Ph.D. levels and 2 Post-Doctoral Scholars in the Department of Plant and Environmental Science, New Mexico State University.
- Editorial board member of Agronomy Journal, Field Crops Research, Crop, Forage, and Turf grass Journal, and Vadose Zone Journal. Expert reviewer for NIFA-SBIR grant and USAID grants, and
- Adjunct faculty: West Texas A&M University, Canyon, TX.

## E. Recent Selected Publications

- Pruitt, D., Idowu, O. J., Angadi, S., Steiner, R. L., Sanogo, S., Omer, M., **Darapuneni, M. K.** (2025). Guar growth and yield as affected by nitrogen and phosphorus fertilizer. *Journal of Plant Nutrition*, 48(14), 2500-2512. <https://doi.org/10.1080/01904167.2025.2482094>
- **Darapuneni, M. K.**, Lauriault, L. M., Trostle, C. L., Flynn, R. P. (2024). Evaluation of pre-plant incorporated manure and phosphorus fertilizers on alfalfa yield, nutritive value, and residual soil characteristics. *Journal of Plant Nutrition*, 47(12), 1969-1980. <https://doi.org/10.1080/01904167.2024.2325959>
- Djaman, K., **Darapuneni, M. K.**, Puppala, N. (2024). Plant Nutrient Removal and Soil Residual Chemical Properties as Impacted by Maize Planting Date and Density. *PlosOne*, 29. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0299193>.
- Acharya, B. S., Dodla, S., Wang, J. J., Pavuluri, K., **Darapuneni, M.**, Dattamudi, S., Kharel, G. 2024. Biochar impacts on soil water dynamics: knowns, unknowns, and research directions. *Biochar*. 2024;6(1): 34. <https://doi.org/10.1007/s42773-024-00323-4>
- Umesh, M. R., Angadi, S., Begna, S., Gowda, P. H., Hagevoort, G. R., Lauriault, L. M., **Darapuneni, M. K.** (2023). Intercropping and species interactions on physiological and light use characteristics of forage cereals-legumes combinations in semi-arid regions. *Field Crops Research*, 290(108755), 9 pp. <https://doi.org/10.1016/j.fcr.2022.108755>.
- **Darapuneni, M. K.**, Lauriault, L. M., Martinez, G., Idowu, O. J., Djaman, K. (2022). Yield potential and water use efficiency of alternate rotation crops in the semiarid environment of southwestern USA. *ASABE Applied Engineering in Agriculture*, 38(6), 845-851. <http://doi.org/10.13031/aea.15030>.
- **Darapuneni, M. K.**, Idowu, O. J., Sarihan, B., Dubois, D. W., Grover, K., Sanogo, S., Djaman, K., Lauriault, L. M. (2021a). Growth characteristics of summer cover crop grasses and their relation to soil aggregate stability and wind erosion control in arid Southwest. *ASABE Applied Engineering in Agriculture*, 37(1), 11-23. <https://doi.org/10.13031/aea.13972>
- Djaman, K., Allen, S., Djaman, D., Koudahe, K., Irmak, S., Puppala, N., **Darapuneni, M. K.**, Angadi, S. (2021a). Planting date and plant density effects on maize growth, yield, and water use efficiency. *Environmental Challenges*. 6 (2022) 100417. <https://doi.org/10.1016/j.envc.2021.100417>
- Pratt, R. C., Velasco-Cruz, C., **Darapuneni, M. K.**, Montgomery, R., Grant, L. (2021). Southwest-adapted maize germplasm as potential genetic resource for selection of salinity tolerant cultivars. *Crop Science*, 62(1), 286-300. <https://doi.org/10.1002/csc2.20654>
- Paye, W., Begna, S., Ghimire, R., Angadi, S., Singh, P., Umesh, M.R, **Darapuneni, M. K.** (2021). Winter canola yield and nitrogen use efficiency in a semiarid irrigated condition. *Agronomy Journal*. 113(2), 2053-2067. <https://doi.org/10.1002/agj2.20611>
- **Darapuneni, M. K.**, Lauriault, L. M., VanLeeuwen, D. M., Angadi, S. V. (2020a). Irrigation strategies influenced alfalfa dry matter yield and water productivity in a semiarid subtropical environment. *Irrigation and Drainage*, 69(5), 1063-1071. <https://doi.org/10.1002/ird.2490>
- Marsalis, M. A., Lauriault, L. M., **Darapuneni, M. K.** (2020). Perennial cereal rye performance and comparisons with winter annual cereal forages in the semiarid,

subtropical southwestern United States. *Crop Science*, 60, 507-514.  
<https://doi.10.1002/csc2.20069>