



DR. WENXUAN GUO

Associate Professor,
Plant & Soil Science

“Producing more with less by optimizing crop inputs and management, my work helps to improve agricultural sustainability.”

RESEARCH EXPERTISE

- Agricultural remote sensing
- Plant phenotyping using UAS
- Computer programming and data science
- Quantitative crop modeling
- Precision water and nitrogen applications
- Water stress assessment

PROFESSIONAL PREPARATION

- B.S. Hebei Agricultural University, 1996
- M.S. West Texas A&M University, 2002
- Ph.D. Texas Tech University, 2005

FAVORITE ARTICLE

Lin, Z., & Guo, W. (2020). Sorghum panicle detection and counting using unmanned aerial system images and deep learning. *Frontiers in Plant Science*, 11, 534853. <https://doi.org/10.3389/fpls.2020.534853>

“This study lays a strong foundation for future research and opens up opportunities for collaboration with fellow research scholars and peer scientists. Through this work, we can explore new frontiers in agricultural science, revolutionizing the way we study and improve crop systems.”

WHAT MAKES THE DAVIS COLLEGE GREAT?

“Davis College’s exceptional diversity fuels collaborative research and educational opportunities. The college’s supportive staff and wealth of internal resources create an enriching environment for learning and innovation.”