CURRICULUM VITAE

Name: Juan Enciso
Title: Professor
Address: Texas A&M AgriLife Research & Extension Center
Weslaco, Texas 78596
Telephone: (956) 968-5585   **Fax:** (956) 969-5620
E-mail: Juan. Enciso@ag.tamu.edu

A. Education/Training

INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
Universidad Autónoma "Agraria Antonio Narro", Saltillo, Coah. México.	B.S.	1984	Irrigation Engineering
Instituto Tecnológico de Estudios Superiores de Monterrey.	M.S.	1986	Water Management,
University of Nebraska-Lincoln, Lincoln, NE	Ph.D.	1992	Agricultural Engineering

B. Positions and Employment

- Professor. Department of Biological and Agricultural Engineering, Texas A&M AgriLife Research, 2021 to present.
- Associate Professor. Department of Biological and Agricultural Engineering, Texas A&M AgriLife Research, 2006 to 2021.
- Assistant Professor and Extension Specialist. Biological and Agricultural Engineering Department, Texas A&M Research and Extension Center at Weslaco, 2003 – 2006.
- Assistant Professor and Extension Agricultural Engineering Specialist. Biological and Agricultural Engineering Department, Texas A&M University System-Fort Stockton, TX, 1998 – 2003.

C. Selected Awards and Honors

- **2020.** Texas A&M AgriLife Extension Superior Service Award: "Rio Grande Valley (RGV) Small Acreage Program Team". College Station, TX, January 09, 2020.
- **2015.** American Society of Biological Engineers Award for the Advancement of Surface Irrigation.
- **2008.** "Superior Paper Award" from the American Association of Agricultural and Biological Engineers
- **2008.** Texas Environmental Excellence Award – Agriculture, Texas Commission on Environmental Quality- Water Conservation, Rio Grande Basin Initiative.
- **2007.** USDA CSREES National Water Program Award for Outstanding Integrated Activities for Water Resources, Rio Grande Basin Initiative, Team Member. The first USDA national teamwork award for integrated water resources, ranked number 1 out of 37 nominations.
- **2006.** Vice Chancellor's Award in Excellence.

D. Professional Experience

Dr. Enciso is a Professor and Agricultural Engineer with the Department of Biological and Agricultural Engineering at Texas A&M University. Dr. Enciso has extensive experience in research, education, and outreach. Juan Enciso actively participates in research programs related to irrigation, water conservation, remote sensing, and water quality (food contamination, and

salinity) with producers in the Lower Rio Grande Valley.   Dr. Enciso has produced over 100 publications and has made more than 200 educational presentations to a combined audience of over 5,000 participants. He has participated in 40 publicly funded projects for a total of about $10.2 million.

E. Selected Grants and Contracts

Satellite and UAS Imagery Use to Implement Timely Irrigation Strategies. 2019. Juan Enciso. Foundation for Food and Agriculture Research. $16,500. 02/01/2019 to 01/31/2020.

Agricultural Water Management Strategies and Education Programs for Water Conservation in South Texas. PI: Juan Enciso. 07-01-2020 to 08-31-2022. TWDB. $200,000.

Diversifying the Water Portfolio for Agriculture in the Rio Grande Basin. USDA-Texas Water Resource Institute. John Tracy. Co-PI: Juan Enciso. 2016. Amount requested: $4,997,257. My contribution to the project: $287,900.00.

F. Selected Journal Publications

Pappu Kumar Yadav, J Alex Thomasson, Robert Hardin, Stephen W Searcy, Ulisses Braga-Neto, Sorin C Popescu, Daniel E Martin, Roberto Rodriguez, Karem Meza, Juan Enciso, Jorge Solorzano Diaz, Tianyi Wang. 2022. Detecting Volunteer Cotton Plants in a Corn Field with Deep Learning on UAV Remote-Sensing Imagery. arXiv preprint arXiv:2207.06673.

Jiménez-Jiménez, Sergio I.; Ojeda-Bustamante, Waldo; Marcial-Pablo, Mariana d.J.; Enciso, Juan. 2021. Digital Terrain Models Generated with Low-Cost UAV Photogrammetry: Methodology and Accuracy. ISPRS Int. J. Geo-Inf. 10, no. 5: 285. https://doi.org/10.3390/ijgi10050285

Garza, Blanca N. †; Ancona, Veronica; Enciso, Juan; Perotto-Baldivieso, Humberto L.; Kunta, Madhurababu; Simpson, Catherine. 2020. Quantifying Citrus Tree Health Using True Color UAV Images. Remote Sens. 12(1): 170. https://doi.org/10.3390/rs12010170.

Awika HO, Solorzano J, Cholula U, Shi A, Enciso J, Avila CA. Prediction modeling for yield and water-use efficiency in spinach using remote sensing via an unmanned aerial system. Smart Agricultural Technology. 2021;1:100006.

Chang, Anjin, Jinha Jung, Junho Yeom, Murilo M. Maeda, Juan A. Landivar, Juan M. Enciso, Carlos A. Avila, and Juan R. Anciso. Unmanned Aircraft System- (Uas-) Based High-Throughput Phenotyping (Htp) for Tomato Yield Estimation. Journal of Sensors 2021 (2021/02/09 2021): 8875606. https://doi.org/10.1155/2021/8875606. https://doi.org/10.1155/2021/8875606.

Cholula, Uriel; da Silva, Jorge A.; Marconi, Thiago; Thomasson, J. A.; Solorzano, Jorge; **Enciso, Juan**. 2020. Forecasting Yield and Lignocellulosic Composition of Energy Cane Using Unmanned Aerial Systems. Agronomy 10, no. 5: 718. doi:10.3390/agronomy10050718.

Enciso Juan, Jose C. Chavez, Girisha Ganjegunte and Samuel D. Zapata. 2019. Energy Sorghum Production under Arid and Semi-Arid Environments of Texas. Water, 11(7), 1344; https://doi.org/10.3390/w11071344 (registering DOI).

Simpson C.R., Gonzales J. †, Enciso J., Nelson S.D., Sétamou M.. 2020. Root distribution and seasonal fluctuations under different grove floor management systems in citrus. Scientia Horticulturae. Volume 272, 2020, 109364. ISSN 0304-4238, https://doi.org/10.1016/j.scienta.2020.109364. Chavez, Jose Carlos, Juan Enciso, G. Ganjegunte, N. Rajan, J. Jifon, V. P. Singh. 2019. Growth Response and Productivity of Sorghum for Bionergy Production in Texas. Transactions of the ASABE. Vol 62(5)1207-1218. ISSN 2151-0032 https://doi.org/10.13031/trans.13317

Enciso Juan, Carlos A. Avila, Jinha Jung, Sheren Elsayed-Farag, Anjin Chang, Junho Yeom, Juan Landivar, Murilo Maeda, Jose C. Chavez. 2019. Validation of agronomic UAV and field measurements for tomato varieties. Computers and Electronics in Agriculture. Volume 15, March 2019. Pages 278-283.