Joel ReyesCabrera, Ph.D.

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fruits shelflife	Board			
Development of sustainable irrigation and nutrient management for citrus grove in South Texas	Agricultural	PI	\$53,000	2023202
NRT-HDR Transdisciplinary Research and Education for Air and Water Resources Solutions in Coastal Communities	NSF	Со-РІ	\$2,000,000	20232028
Evaluation of onion Allium cepa) and sour orange rootstock performance and physiology under different soil amendments	Greater Texas Foundation Undergraduate Research	PI	\$2,830	2024
Sustainable organic citrus production using improved agroecological management strategies	NIFA-ICGP	Co-PI	\$2,000,000	20242028
Total funding participated			\$4.4 million	
Total funding to my program			\$591,695	

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Present job responsibilities (25% teaching, 75% research)

Courses taught PLSS 532 Advanced Plant Physiology

PLSS 4390 Precision Agriculture PLSS 5390 Precision Agriculture

PLSS 5390 Environmental Crop Nutrition

PLSS 3381 Crop Physiogly

Research description

Experiments in the Cabrera ladicuses on pre and posservest citrus physiology and horticultural conduct research in field and controlled conditions. We explore integrated nutrient management, combining organic and inorganic organic essential nutrients for sustainable and profitable farming. Integrating chemical and organic fertilizers via a balanced approach is crucial for maximizing crop yield and preserving soil fertility.

Outreach description

Projects in the lab assupported through a variety of funding sources, thereby our extension program seeks to provide science DVHG LQIRUPDWLRQ WR LPSURYH SURGXFHUV¶ operation.

- 7. ReyesCabrera, J., J.E. Erickson, R.G. Leon, M.L. Silveira, and L.E. Sollenberger. 2019. Amending marginal sandy soils with biochar and lignocellulosic fermentation residual sustains fertility in elephantgrass bioenergy cropping systems. (Nyutr. Agroecosys. 115: 69-83.
- ReyesCabrera, J., J.E. Erickson, R.G. Leon, M.L. Silveira, D. L. Rowland., L.E. Sollenberger, and K.T. Morgan. 2017/onvertingbahiagrasspasture lando elephantgrass bioenergy production enhanders mass yieldand water quality. Agr. Ecosyst. Environ. 248: 2028.
- 5. ReyesCabrera, J., R.G. Leon, J.E. Erickson, M.L. Silveira, D. L. Rowland., and K.T. Morgan. 2017Differences in biomass and water dynamics betweeonttonpeanut rotationand asweet sorghurbioenergy cropwith and without biochar and vinasse soil amendmentsField Crop. Res214: 123130.
- 4. ReyesCabrera, J., R.G. Leon, J.E. Erickson, M.L. Silveira, D. L. Rowland., and K.T. Morgan. 2017. Biochar changes shoot growth and root distributisonybean during early vegetative stages. Crop Sci. \$45:4461.
- 3. ReyesCabrera, J., L. Zotarelli, M. D. Dukes, D.L. Rowland, and S. A. Sargent 2016 Soil moisture distribution under drip irrigation and seepage for potato production Wager Manage 169:183192.
- 2. ReyesCabrera, J., L. Zotarelli, D. L. Rowland, M D. Dukes Q q 0.00000912 0 612 792 re W* n BT

- 27. ReyesCabrera, J. Towards a more resilient and robust citrus production in Tescaser crops. Crop Science Society of America. Crop Ecology, Managemento Session II. St. Louis, MO. November 2023.
- 26. ReyesCabrera, J., Donato, C. Can cover crops do anything for the Texas citrus industry? American Society of Horticultural Sciences

Undergraduate Research@reative Achievements Forum. University of Missouri. Columsour 2.1a, s



- 2. Makani, M. N., S. A. Sargen**J**, ReyesCabrera, L. Zotarelli. 2012. The effect of irrigation method, harvest time, and storage on mechanical injury and tuber quality of tablestock potato *solanum tuberosum* L.). ASHS Annual Conference.
- 1. Perret J.S.J. ReyesCabrera, V.R. Bazán, B.K. Singh, K.T. Morgan, aRdA. Gilbert. 2010. Lysimeter experiments to investigate the fate and transport of vinasse application in tropical soils. 21st Century Watershed Technology: Improving Water Quality and Environment, CD-Rom Proceedings, 2214 February 2010 (EARTH Universit Costa Rica), ASABE Publication Number 701P0210cd.

Extension Publications

Christensen, C.T.J. ReyesCabrera, L.R. Rens, J.E. Pack, L. Zotarelli, C. H. Hutchinson, W.J. Dahl, D. Gergela, and J. White. 2016. Growing potatoes in the Florida home garden. Horticultural Sciences Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. EDIS Publication HS933. 9p. http://edis.ifas.ufl.edu/hs183

Teaching experience

2024	Instructor, Crop Physiology ±undergraduate Texas A&M University Kingsville
2023	Instructor, Environmental Crop Nutrition
	Texas A&MUniversityKingsville
2023	Instructor, Precision Agriculture
	Texas A&M UniversityKingsville
2022	Instructor, Advanced Crop Physiology
	Texas A&M UniversityKingsville
2019	Instructor, Introduction to Soil Sciences
	Eastern New Mexico University
2019	,

University of Florida

Mentoring	·
2023	Hemanth Reddy Karakala (Master), TAMUK.
2023	Dileep Kumar Alapati (Master), TAMUK.

Awards & Honors

Certificate ineffective college instruction from The Association of College and	2023
University Educators (ACUE) (\$500)	
Travel grant from Nzzou Postdoctoral Association (\$300)	2019
Third place poster competition Bioenergy Session / ASA (\$150)	2016
Linton E. GrinterAward Recipient (\$2,500)	2013
EARTH University Honors College Outstanding Junior	2008