MURILO M. MAEDA
Assistant Professor & Extension Cotton Specialist
Texas A&M AgriLife Extension, Lubbock, TX

Education

2015 PhD Texas A&M University, College Station, TX, Agronomy/Crop Physiology
2012 MS Texas A&M University, College Station, TX, Agronomy/Crop Physiology
2009 BS Centro Universitário do Triângulo, Uberlândia, MG, Brazil, Biology

Research and Professional Experience

2018-current *Assistant Professor & Extension Cotton Specialist*, Texas A&M AgriLife Extension, Lubbock, TX
2017-current *Graduate Faculty*, Texas A&M University – Corpus Christi, Corpus Christi, TX
2015-2018 *Assistant Research Scientist*, Texas A&M AgriLife Research, Corpus Christi, TX
2011-2015 *Graduate Research/Teaching Assistant*, Texas A&M University
2007-2010 *Research Assistant*, Deltapine/Monsanto, Uberlândia, MG, Brazil
2005-2007 *Research Assistant (Intern)*, Deltapine, Uberlândia, MG, Brazil
2004-2005 *Intern*, Tochiyuki Agropecuária Ltda., Uberlândia, MG, Brazil
2004-2004 *Intern*, Netafim Brasil, Uberlândia, MG, Brazil

Peer-reviewed Publications

1. Maeda M.M., J.T. Cothren, J.L. Heilman, C.J. Fernandez, G.D. Morgan, and V.A. da Costa. 2018. 1-Methylcyclopropene effects on field-grown cotton: Physiological characteristics. The Journal of Cotton Science 22: 86-96.
2. Jung, J., Maeda, M., Chang, A., Landivar, J., Yeom, J., McGinty, J., 2018. Unmanned aerial system assisted framework for the selection of high yielding cotton genotypes. Comput Electron Agr 152, 74-81.
3. Pugh, N.A., D.W. Horne, S.C. Murray, G. Carvalho, L. Malambo, J. Jung, A. Chang, M. Maeda, S. Popescu, T. Chu, M.J. Starek, M.J. Brewer, G. Richardson, W.L. Rooney, 2018. Temporal Estimates of Crop Growth in Sorghum and Maize Breeding Enabled by Unmanned Aerial Systems. The Plant Phenome Journal.
4. Yang, Y., L.T. Wilson, J. Jifon, J.A. Landivar, J. da Silva, M.M. Maeda, J. Wang, E. Christensen, 2018. Energycane growth dynamics and potential early harvest penalties along the Texas Gulf Coast. Biomass and Bioenergy 113, 1-14.
5. Enciso, J., M. Maeda, J. Landivar, J. Jung, A. Chang. 2017. A ground-based platform for high throughput phenotyping. Computers and Electronics in Agriculture: 141: 286-291.
6. Stanton, C., M.J. Starek, N. Elliott, M. Brewer, M.M. Maeda and T. Chu. 2017. Unmanned aircraft system-derived crop height and normalized difference vegetation index metrics for sorghum yield and aphid stress assessment. J Appl Remote Sens 11: 026035-026035. doi:10.1117/1.JRS.11.026035.
7. Chang, A., J. Jung, M. M. Maeda and J. Landivar. 2017. Crop height monitoring with digital imagery from Unmanned Aerial System (UAS). Computers and Electronics in Agriculture 141: 232-237.
8. Chen, R., T. Chu, J.A. Landivar, C. Yang and M.M. Maeda. 2017. Monitoring cotton (Gossypium hirsutum L.) germination using ultrahigh-resolution UAS images. Precis Agric: 1-17.

9. Chu T., R. Chen, J.A. Landivar, M.M. Maeda, C. Yang, M. Starek. 2016. "Cotton growth modeling and assessment using unmanned aircraft system visual-band imagery", J. Appl. Remote Sens. 10(3), 036018 (Aug 23, 2016). http://dx.doi.org/10.1117/1.JRS.10.036018

Non-Peer-Reviewed Publications

1. Landivar J.A., J. Jung, M. Maeda, A. Chang, and J. Yeom. 2018. Analysis of plant growth and yield using an UAS (Unmanned Aircraft System)-based remote sensing platform. In press. *In* Proc. Beltwide Cotton Conf., San Antonio, TX. 3-5 Jan. 2018. Natl. Cotton Counc. Am., Memphis, TN.
2. Maeda M., J. Jung, J. Yeom, A. Chang, A. Maeda, J. Landivar, S. Hague, C.W. Smith, J. McGinty, and J. Enciso. 2018. Validation of Unmanned Aerial System (UAS) data for cotton research. In press. *In* Proc. Beltwide Cotton Conf., San Antonio, TX. 3-5 Jan. 2018. Natl. Cotton Counc. Am., Memphis, TN.
3. Ashapure A., J. Jung, J. Yeom, A. Chang, M. Maeda, and J. Landivar. 2018. Comparison of tillage and no-tillage crop treatments using multi-temporal UAS data. In press. *In* Proc. Beltwide Cotton Conf., San Antonio, TX. 3-5 Jan. 2018. Natl. Cotton Counc. Am., Memphis, TN.
4. Jung J., J. Yeom, A. Chang, M. Maeda, J. Landivar, S. Hague, and C.W. Smith. 2018. 3D open cotton boll detection using Unmanned Aerial System (UAS) data. In press. *In* Proc. Beltwide Cotton Conf., San Antonio, TX. 3-5 Jan. 2018. Natl. Cotton Counc. Am., Memphis, TN.
5. Maeda M., J. Jung, J. Landivar-Bowles, A. Chang, J. Yeom, W. Rooney, N. Pugh, D. Horne, and G. Carvalho. 2017. Unmanned Aerial System (UAS)-based panicle size extraction for grain yield estimates. Paper presented at: ASA, CSSA, and SSSA International Annual Meetings. 2017 Annual Meeting, Tampa, FL. October 22 – 25, 2017.
6. Jung J., A. Chang, J. Yeom, J. Landivar-Bowles, and M. Maeda. 2017. Uashub: Online research and collaboration portal for UAS data. Paper presented at: ASA, CSSA, and SSSA International Annual Meetings. 2017 Annual Meeting, Tampa, FL. October 22 – 25, 2017.
7. Rooney W., N. Pugh, D. Horne, M. Maeda, J. Jung, L. Malambo, J.A. Thomason, and S. Popescu. 2017. Estimating height and yield in grain sorghum using UAV systems and their application in breeding. Paper presented at: ASA, CSSA, and SSSA International Annual Meetings. 2017 Annual Meeting, Tampa, FL. October 22 – 25, 2017.
8. Pugh N., J. Jung, D. Horne, A. Chang, M. Maeda, J. Landivar, and W. Rooney. 2017. Prediction of biomass yield in bioenergy sorghum using unmanned aerial systems. Paper presented at: ASA, CSSA, and SSSA International Annual Meetings. 2017 Annual Meeting, Tampa, FL. October 22 – 25, 2017.
9. Landivar J.A., A. Maeda, M.M. Maeda, J. Jung, L. Huynh. 2017. Integration of unmanned aerial system (UAS) data and process-based simulation models to forecast crop growth and yield. p. 25-28. *In* Proc. Beltwide Cotton Conf., Dallas, TX. 4-6 Jan. 2017. Natl. Cotton Counc. Am., Memphis, TN.
10. Maeda M.M., J.A. Landivar, J. McGinty, A. Maeda, J. Jung, A. Chang, J. Yeom, W. Smith, S. Hague, D. Stelly, J. Dever, J. Enciso. 2017. Unmanned aerial system (UAS) platforms for cotton breeding: findings and challenges. p. 29-33. *In* Proc. Beltwide Cotton Conf., Dallas, TX. 4-6 Jan. 2017. Natl. Cotton Counc. Am., Memphis, TN.