Deanroy Mbabazi

2401 Welsh Ave Apt 415, College Station, Texas, 77845 | Email: dmbabazi@tamu.edu
Phone: +1-352-278-2914 |Google Scholar

EDUCATION

Texas A&M University	**Ph.D. Biological and Agricultural Engineering** **Dissertation**: *Evapotranspiration-soil moisture coupling relationships from the point to satellite scale* (**Chair**: Prof. Binayak P. Mohanty)	Jan 2016 – Present
University of Florida	**M.S. Agricultural and Biological Engineering** **Thesis:** *Evaluation of irrigation application depths, yields, and water use efficiencies for three irrigation methods and development of an irrigation schedule-testing model for avocado* (**Chair**: Prof. Kati W. Migliaccio)	Dec 2015
Makerere University	**B.S. Agricultural Engineering** **Thesis**: *Determination of domestic water meter accuracy degradation rates in Uganda* (**Chair**: Prof. Noble Banadda)	Jan 2014

EXPERIENCE

Research Assistant/Texas Water Observatory Student Technician Jan 2016 – Present
Texas A&M University, College Station, TX

Teaching Assistant Jan 2015 – May 2015
University of Florida, Gainesville, FL

Research Assistant Jan 2014 – Dec 2015
University of Florida, Gainesville, FL

PUBLICATIONS

1. Mbabazi, D., K. W. Migliaccio, C. Fraisse., L. Zotarelli, J.H. Crane, and K. Morgan. 2017. An irrigation schedule testing model for optimization of the Smartirrigation Avocado app. Agricultural Water Management, 179, pp.390-400.
2. Mbabazi, D., N. Banadda, N. Kiggundu, M.Babu, and H. Mutikanga. 2015. Determination of domestic water meter accuracy degradation rates in Uganda. Journal of Water Supply: Research and Technology-AQUA, 64(4), 486-492.
3. Mbabazi, D., K.W. Migliaccio, J.H. Crane, J.H. Debastiani Andreis, C. Fraisse, L.Zotarelli and K. Morgan.2015. Smartirrigation Avocado App: A Step-by-Step guide. http://edis.ifas.ufl.edu/pdffiles/AE/AE51300.pdf
4. Mbabazi, D., K.W. Migliaccio, C. Fraisse, L. Zotarelli, J.H. Crane and K. Morgan. Comparing weather-based irrigation scheduling methods in Avocado (*Persea americana* Mill.) orchards (in preparation for J. Irrig. Drain Eng).
5. Mbabazi, D., B.P. Mohanty, and N. Gaur. High spatio-temporal resolution evapotranspiration estimates by fusing eddy covariance and Landsat based data (under review in Water Resources Research).

6. Mbabazi, D., B.P. Mohanty, N. Gaur, G.R. Miller, G.W. Moore, N. Rajan, and M.E. Everett. High-resolution rootzone soil moisture estimates by assimilating remote sensing data, in-situ observations, and soil water balance models (in preparation for Water Resources Research).

AWARDS AND HONORS

- Bill and Rita Stout International Graduate Student Achievement Award 2018
- Graduate Research Assistantship, Texas A&M University, College Station, TX 2016 – Present
- William H. Krome Memorial Fellowship Award, Dade County AGRI-Council, Inc, FL 2014
- Graduate Research Assistantship, University of Florida, Gainesville, FL 2014 – 2015
- The Kilimo Trust Award, The Kilimo Trust, Kampala, Uganda 2013
- National Water and Sewerage Corporation (NWSC) Research Award, Uganda 2013
- Government of Uganda Scholarship, Government of Uganda 2009 – 2013

SELECT ORAL PRESENTATIONS

1. Mbabazi, D., B. P. Mohanty, and N. Gaur. 2020. Disaggregation of eddy covariance evapotranspiration fluxes from heterogenous landscapes. AGU fall meeting
2. Mbabazi, D., B. P. Mohanty, and N. Gaur. 2019. Evapotranspiration-soil moisture coupling relationships from the field to satellite scale. AGU fall meeting, San Francisco, California
3. Mbabazi, D., B. P. Mohanty, and N. Gaur. 2018. High-resolution root zone soil moisture mapping by assimilating satellite remote sensing data, insitu observations, and a soil water balance model. AGU fall meeting, Washington, DC
4. Mbabazi, D., B. P. Mohanty, and N. Gaur. 2017. Integrating Eddy covariance, Penman-Monteith, and METRIC based evapotranspiration estimates to generate high-resolution space-time ET over the Brazos River Basin. AGU fall meeting, New Orleans, Louisiana.
5. Mbabazi, D., K.W. Migliaccio, C. Fraisse, L. Zotarelli, J.H.Crane, and K. Morgan. 2015. SmartIrrigation Avocado app: An irrigation schedule algorithm optimization model. ASABE AIM, New Orleans, Louisiana.
6. Mbabazi, D., K.W. Migliaccio, C. Fraisse, L. Zotarelli, J.H.Crane, and K. Morgan. 2015. SmartIrrigation Avocado app: Evaluation and optimization. Tropical Research and Education Center Seminar Series, University of Florida, Homestead, FL.

PROFESSIONAL MEMBERSHIPS

1. American Geophysical Union (AGU)
2. American Society of Agricultural and Biological Engineers (ASABE)
3. Alpha Epsilon, The Academic honor society for the American Society of Agricultural and Biological Engineers

PROFESSIONAL SERVICE

1. Treasurer, BAEN Graduate Student Association, Texas A&M University Aug 2018 – Aug 2019
2. Reviewer: Geoderma, J. Soil and Water Conservation, Sustainability, and Atmosphere
3. Graduate Professional development committee, University of Florida Aug 2014 – Dec 2015
4. Service Committee, University of Florida Aug 2014– Dec 2015