

Deanroy Mbabazi

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EDUCATION

- Texas A&M University **Ph.D. Biological and Agricultural Engineering**
Dissertation: *Relationships between evapotranspiration and soil moisture across scales (point to satellite scale)*
(Chair: Prof. Binayak P. Mohanty)
- University of Florida **M.S. Agricultural and Biological Engineering** Dec 2015
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)
- Makerere University **B.S. Agricultural Engineering** Jan 2014
Thesis: *Determination of domestic water meter accuracy degradation rates in Uganda* (Chair: Prof. Noble Banadda)

EXPERIENCE

- Texas Water Observatory Technician** Jan 2019 – Present
Texas A&M University, College Station, TX
- Research Assistant** 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

- 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.
- 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.
- 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/pdf/ae/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. (Submitted, J. Irrig. Drain Eng)

AWARDS AND HONORS

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

PRESENTATIONS

1. Mbabazi, D and B. P. Mohanty. 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, District of Columbia
2. 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.
3. 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.
4. 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 –present
2. Reviewer: Geoderma The Global Journal of Soil Science (Elsevier), J. Soil and Water Conservation
3. Graduate Professional development committee, University of Florida, Aug 2014 – Dec 2015
4. Service Committee, University of Florida Aug 2014 – Dec 2015