

BRENDA V. ORTIZ

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a. Professional Preparation

Univ. Nacional de Colombia and Univ. del Valle	Agricultural Eng.	B. S.	1997
The University of Georgia	Agricultural Eng.	Ph.D.	2008

b. Appointments

2014-	Associate Professor	Crop, Soil and Env. Sciences Dept., Auburn University
2009-2014	Assistant Professor	Crop, Soil and Env. Sciences Dept., Auburn University
1997-2004	Research Assistant	Colombian Sugar Cane Research Center, Colombia

c. Publications (20 papers, Total citation: **167**; h-index: **8**, Google scholar, By February, 2015)

(i) Significant publications

- Woli, P., **B.V. Ortiz**, D. Buntin, K. Flanders. 2014. El Niño-Southern Oscillation (ENSO) Effects on Hessian Fly (Diptera: Cecidomyiidae) Infestation in the Southeastern USA. *Environmental Entomology Journal*. doi: <http://dx.doi.org/10.1603/EN14032>
- Tian, D., S. Asseng, C. J. Martinez, V. Misra, D. Cammarano, **B. V. Ortiz**. 2010. Does decadal climate variation influence wheat and maize production in the southeast USA?. *Agricultural and Forest Meteorology* 204, 1–9
- Torino, M. S., **B.V. Ortiz**, J. P. Fulton, K. S. Balkcom, and C. W. Wood. 2014. Evaluation of Vegetation Indices for Early Assessment of Corn Status and Yield Potential in the Southeastern United States. *Agronomy Journal* 106:1389–1401. doi:10.2134/agronj13.0578.
- Cammarano, D., L. Stefanova, **B. Ortiz**, M. R. Rodrigues, S. Asseng, G. Vellidis, V. Misra, G. Wilkerson, B. Basso, J. W. Jones, K. Boote. 2013. Evaluating the fidelity of downscaled climate data on simulated wheat and maize production in the southeastern US. *Regional Environmental Change Journal*. Published online: 06 February, 2013. DOI 10.1007/s10113-013-0410-1.
- Bartels, W., C.A., Furman, D.C., Diehl, F.S., Royce, D.R., Dourte, **B., Ortiz**, D., Zierden, T.A., Irani, C., Fraisse, and J., Jones. 2012. Warming up to climate change: A participatory approach to engaging with agricultural stakeholders in the Southeast US. *Journal of Regional Environmental Change*. Published online: November 2012. DOI 10.1007/s10113-012-0371-9
- Ortiz, B. V.**, K. B. Balkcom, L. Duzy, E. van Santen, D. L. Hartzog. 2013. Evaluation of agronomic and economic benefits of using RTK-based autoguidance systems on peanut production. *Journal of Precision Agriculture* 14(4): 357-375. DOI 10.1007/s11119-012-9297-y
- Tapley, M., **B. V. Ortiz**, and E. van Santen. 2013. Location, Seeding Date, and Variety Interactions on Winter Wheat Yield in the Southeast USA. *Agronomy Journal* 105:509-518. doi:10.2134/agronj2012.0379

- **Ortiz, B. V.,** D. G. Sullivan, C. Perry, P. Lu, R. Kemerait, R. F. Davis, A. Smith, G. Vellidis, R. Nicholds. 2012. Variable Rate Application of Nematicides on cotton Fields: A Promising Site-Specific Management Strategy. *Journal of Nematology* 44(1): 31-39.
- **Ortiz, B. V.,** S. Thomson, Huang, Y., K. N. Reddy, W. Ding. 2011. Determination of differences in crop injury from aerial application of glyphosate using vegetation indices. *Computers and Electronics in Agriculture* 77:204-213
- Persson, T., **Ortiz, B.,** D. Bransby, S. Sladden, W. Wu, G. Hoogenboom. 2011. Determining the impact of climate and soil variability on switchgrass (*Panicum virgatum* L.) production in the southeastern USA; a simulation study. *Biofuels, Bioproducts & Bioenergy journal* (DOI: 10.1002/bbb.288).
- **Ortiz, B. V.,** C. Perry, G. Vellidis, D. G. Sullivan. 2010. Geostatistical modeling of the spatial variability and risk areas of southern root-knot nematodes in relation to soil properties. *Geoderma* 156:243-252
- **Ortiz, B. V.,** G. Hoogenboom, G. Vellidis, K. Boote, R. F. Davis, C. Perry. 2009. Adapting the CROPGRO cotton model to simulate cotton biomass and yield under southern root-knot nematode parasitism. *Transactions of ASABE* 52(6):2129-2140.

(ii) Synergic Activities

- Leader, Precision Agriculture Systems Community of the American Society of Agronomy. Period 2015.
- Panelist/reviewer of several USDA-NIFA programs (Since 2010).
- Associate Editor, *Transactions of ASABE* and *Agronomy Journal*, 2010-.
- Co-Principal Investigator of a Regional Climate Extension Project funded by USDA.NIFA in 2010. Funding period 2010-2015. Since 2009, Dr. Ortiz has served as PI and Co-PI for 83 projects totaling over \$2.5 million from USDA-NIFA, and commodities.
- International collaboration with European Universities located in Germany, Italy and Greece. I am a member of the TransAtlantic Consortium of Precision Agriculture.
- International work to establish partnership with research and education institutions in Cuba.

(iii) Collaborators & Other Affiliations

i. Collaborators and Co-editors

Senthold Asseng (UFL), Gerrit Hoogenboom (WSU), Clyde Fraisse (UFL), George Vellidis (UGA), William Raun (OSU), Kelly Thorp (USDA-ARS, Arizona), Gary Windham (USDA-ARS, Mississippi), Brian Scully (USDA-ARS, Florida), Puneet Srivastava (Auburn University), Francesco Morari (Padova University, Italy).

ii. Graduate and post graduate advisors

Ph.D. Advisor: Damianos Damianidis, Valentina Zanella (Italy)

iii. Thesis and Postgraduate-Scholar Sponsor

Graduate students (3): M. Tapley, M. Torino, M. Rodrigues. (I was major or co-major professor).
 Postdoctoral Advisor: Dr. Prem Woli, Dr. Reshmi Sarkar.