

# ARIEL ORTIZ-BOBEA

Agricultural and Resource Economics  
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## EDUCATION

Ph.D.	University of Maryland (Agricultural and Resource Economics)	2013
M.S.	University of Maryland (Agricultural and Resource Economics)	2011
M.P.A.	Syracuse University (International and Development Administration)	2006
M.Eng.	AgroParisTech (Agronomy)	2004
B.S.	University of Paris-Sud (Life Sciences)	2001

## DISSERTATION

Title: “Essays on Climate Change Impacts and Adaptation on Agriculture”  
Committee: Richard E. Just (chair), Robert G. Chambers, Maureen Cropper, Ted McConnell and Rob Williams III

## FIELDS OF INTEREST

Climate change impacts and adaptation, agricultural economics, environmental and resource economics, applied econometrics, spatial econometrics

## PROFESSIONAL EXPERIENCE

Fellow, 7/2013–, Resources for the Future, Washington, DC  
Short Term Consultant, 7/2012–, World Bank, Development Research Group : Environment & Energy Team (DECEE).  
Special assistant to the Minister, 4/2007–8/2008, Ministry of the Environment and Natural Resources, Santo Domingo, Dominican Republic  
Assistant to the Minister, 7/2006–2/2007, Ministry of the Environment and Natural Resources, Santo Domingo, Dominican Republic

## RESEARCH EXPERIENCE

Research Assistant (part-time), Fall 2008–Spring 2010, Summer 2012, Department of Agricultural and Resource Economics, University of Maryland, College Park, MD. Professors Anna Alberini, Richard E. Just, Lars Olson, Robertson Williams III and Robert G. Chambers.  
Research Intern (full-time), Summer 2003, Agro-ecosystem Management Program, Ohio State University, Wooster, OH. Researched the physical factors influencing agricultural pollution in local watershed.  
Field Researcher (full-time), 3/2004–8/2004. Research conducted in rural Kafa Zone, Ethiopia for Engineering Master’s thesis. Involved extensive technical interviews with smallholder farmers. Conducted agro-ecological and agro-economic diagnosis of a small rural region. Surveyed, analyzed and created models of farming systems. Conducted household-level food security assessment. Developed project and policy proposals for the Government and NGOs.

## TEACHING EXPERIENCE

Graduate Teaching Assistant (part-time), Fall 2010, Spring 2011 and Spring 2012, Agricultural and Resource Economics Department, University of Maryland. Applied Econometrics I & II (AREC 623 & 624) for Professors Richard E. Just and Anna Alberini. Conducted weekly 2-hour discussion sessions with first-year PhD students. Developed interactive script files for students to explore topics covered in class using Monte Carlo simulations.

## HONORS & AWARDS

International Conference Student Support Award, 2013, University of Maryland's Office of the President and the Graduate School  
Distinguished Teaching Assistant Award, 2011–2012, University of Maryland's Center for Teaching Excellence and the Graduate School  
Jacob K. Goldhaber Travel Grant, 2012, University of Maryland's Graduate School  
Grant from the European Association of Environmental and Resource Economists (EAERE) to participate in the Belpasso International Summer School "Extremes: Natural Disasters in Changing Climate", 4-10 September 2011, Belpasso, Italy  
Distinguished Teaching Assistant Award, 2010–2011, University of Maryland's Center for Teaching Excellence and the Graduate School  
The Bessie H. Devault Award, 2010, awarded to the author of the best paper by a second-year graduate student in the Department of Agricultural & Resource Economics, University of Maryland.  
Syracuse University Graduate Fellow, 2005–2006

## PUBLICATIONS

Ortiz-Bobea and R.E. Just, "Modeling the Structure of Adaptation in Climate Change Impact Assessment for Agriculture," *American Journal of Agricultural Economics*, 95 (2013): accepted and forthcoming.  
V. K. Prasad, A. Ortiz, B. Stinner, D. McCartney, J. Parker, D. Hudgins, C. Hoy and R. Moore, "Exploring the Relationship Between Hydrologic Parameters and Nutrient Loads Using Digital Elevation Model and GIS - A Case Study from Sugarcreek Headwaters, Ohio, U.S.A". *Environmental Monitoring and Assessment*, 2005 Nov., 110(1-3):141-69.

## WORK IN PROGRESS

Ortiz-Bobea, A. (2012) "Understanding Heat and Moisture Interactions in the Economics of Climate Change Impacts and Adaptation on Agriculture," University of Maryland, College Park, November (job market paper)  
Ortiz-Bobea, A. (2012) "Implications of non-additive effects of weather on agriculture for climate change impact assessment," University of Maryland, College Park  
Ortiz-Bobea, A. (2012) "Nonlinear temperature and moisture effects on US corn yield," University of Maryland, College Park  
Ortiz-Bobea, A. (2012) "The recent evolution of drought tolerance of corn," University of Maryland, College Park

## CONFERENCES

- “Understanding Heat and Moisture Interactions in the Economics of Climate Change Impacts and Adaptation on Agriculture,” paper presented at the 2013 AERE Annual Meeting, Banff, Ontario, Canada, June 3-5, 2013
- “A Biophysical Framework for Time-Aggregation of Weather in Yield Response Models,” poster presented at the 2012 AAEA Annual Meeting, Seattle, Washington, August 12-14, 2012
- “Moisture and Heat Interactions in Yield Response Models,” paper presented at the 2012 AERE Annual Meeting, Asheville, North Carolina, June 3-5, 2012.
- “Toward More Transparency in Climate Change Impact Assessment for Agriculture” (with Richard E. Just), paper presented at the 2012 AAEA’s session’ on “Assessment of Climate Change Impact Methods for Agriculture,” Allied Social Science Association meetings, Chicago, Illinois, January 6, 2012.
- “Improving Agronomic Structure in Econometric Models of Climate Change Impacts,” paper presented at the 2011 AAEA & NAREA Joint Annual Meeting, Pittsburgh, July 24–26 2011. Available at: <http://purl.umn.edu/103656>

## PROFESSIONAL ORGANIZATIONS

American Economic Association (AEA)  
Agricultural and Applied Economics Association (AAEA)  
Association of Environmental and Resource Economists (AERE)  
European Association of Environmental and Resource Economists (EAERE)

Referee activities:        *Economics Bulletin*  
                                  *Journal of Environmental Economics and Management*

## SKILLS

Computer: R, Stata, Matlab  
Languages: Spanish (native); French (fluent); English (fluent)

## REFERENCES

- Dr. Richard E. Just (primary adviser), Department of Agricultural and Resource Economics, University of Maryland; 301-405-1289; [rjust@arec.umd.edu](mailto:rjust@arec.umd.edu)
- Dr. Robert G. Chambers, Department of Agricultural and Resource Economics, University of Maryland; 301-405-1266; [rchambers@arec.umd.edu](mailto:rchambers@arec.umd.edu)
- Dr. Lars Olson, Department of Agricultural and Resource Economics, University of Maryland; 301-405-7180; [lolson@arec.umd.edu](mailto:lolson@arec.umd.edu)
- Dr. Anna Alberini, Department of Agricultural and Resource Economics, University of Maryland; 301-405-1267; [aalberini@arec.umd.edu](mailto:aalberini@arec.umd.edu)