

# Guilherme DePaula

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## Current Appointments

**Iowa State University**, *Assistant Professor of Economics*, August 2017-present

**Center for Agricultural and Rural Development (CARD)**, *Affiliate*, August 2017-present

## Research Interests

Environmental Economics, Agricultural Economics, Development Economics, Applied Econometrics

## Education

**Yale University**, Ph.D., Environmental Economics, 2017

**Yale University**, M.Phil., Environmental Economics, 2014

**Yale University**, M.E.Sc., Environmental Economics, 2011

**University of North Carolina Chapel Hill**, MBA, Chapel Hill, 2002

**Pontifical Catholic University**, BS, Electrical Engineering, Rio de Janeiro, Brazil, 1993

## Research

### *Journal Articles*

**DePaula, G.** (2020): The distributional effect of climate change on agriculture: Evidence from a Ricardian quantile analysis of Brazilian census data, *Journal of Environmental Economics and Management*, 104, p. 102378.

**DePaula, G.**, and R. Mendelsohn (2010): Development and the Impact of Climate Change on Energy Demand: Evidence from Brazil, *Climate Change Economics*, vol. 1, No. 3 187-208

### *Working Papers*

**DePaula, G.**, Bundled Contracts and Technological Diffusion: Evidence from the Brazilian Soybean Boom, *Revise and Resubmit Journal of Development Economics*

**DePaula, G.**, Behzad Jeddi and David Keiser: Adapting to Disasters: Evidence from Drought in Brazil

**DePaula, G.** and L. Severino, Forestland Credit Markets and Conservation: Evidence from Market Simulations with Brazilian Census Data

Jeddi, B., **DePaula, G.**, and A. Fortes, Land-saving Agriculture Intensification: Evidence from the Soy-Corn Double-cropping Boom in Brazil

He, X., **DePaula, G.**, and Wendong Zhang, "Roads, Trade, and Development: Evidence from the Agricultural Boom in Brazil

**DePaula, G.**, Technology Adoption and the Agricultural Supply Response Function

**DePaula, G.**, Relational Contracts and Innovation: Evidence from the Double-cropping Boom in Brazil

### *Selected Work-in-Progress*

"Adapting Nitrogen Management to Climate Change: Evidence from Field Experiments in Iowa" (with Eeul Choi, Peter Kyveryga and Suzanne Fey)

"Climate Adaptation and Innovation in Brazilian Agriculture" (with Ary Fortes)

"A Simulated Farm-level Panel Dataset for the 1996, 2006, and 2017 Brazilian Agricultural Census Surveys" (with Leandro Justino)

### *Non-Peer Reviewed Publications*

Xi He, **Guilherme DePaula**, and Wendong Zhang (2021) Brazil's Transportation Infrastructure and Competitiveness in the Soybean Market, *Agricultural Policy Review*, Iowa State University, Fall 2021 Edition

**DePaula, G.** and Ary Fortes (2019) The Adaptation of Soy-corn Double-cropping to the Brazilian Savanna, *Agricultural Policy Review*, Iowa State University, Spring 2019 Edition

**DePaula, G.** (2018) Relational Contracts and the Diffusion of Agricultural Technologies in Brazil, *Agricultural Policy Review*, Iowa State University, Winter 2018 Edition

**DePaula, G.** and L. Justino (2018) Using Markets to Balance Agricultural Expansion and Forest Conservation, *Agricultural Policy Review*, Iowa State University, Fall 2018 Edition

**DePaula, G.** (2011) Distribution of Climate Change Impacts on Household Electricity Consumption in Brazil, *Tropical Resources*, Volume 30. Tropical Resources Institute, Yale School of Forestry and Environmental Studies

## Grants and Contracts

### *Funded*

Senior Personnel. "SIRAC – Smart Integrated Farm Rural Network" with Asheesh Singh (ISU), Soumik Sarkar (ISU), Das Sajal (Missouri University of Science and Technology), Peter Kyveryga (ISA), Corinne Valdivia (UM Columbia), and Michelle Segovia (UM Columbia). National Science Foundation. USD 1,499,830.

*Unfunded*

Principal Investigator. "Adapting Nitrogen Fertilizer Management to Extreme Rainfall " (2021) with Peter Kyveryga (Iowa Soybeans Association), and Sotirios Archontoulis (ISU). USDA-NIFA-AFRI. USD 649,969

Principal Investigator. "Optimal Contracting for Large-scale Commercialization of Identity-preserved Soybeans" (2019) with Asheesh Singh (ISU), Keri Jacobs (ISU), and Chad Hart (ISU). United Soybean Board (USB). USD 199,758.

Co-Principal Investigator. "Mung Bean: Sustainable and Economically Viable Alternative Specialty Crop for US Farmer " (2018) with Arti Singh (ISU), Asheesh Singh (ISU), Donna Winham (ISU), Priyanka Jayashankar (ISU), Ajay Nair (ISU), Soumik Sarkar (ISU), Andy Lenssen (ISU), Baskar Ganapathysubramanian (ISU), Daren Mueller (ISU), Gary Strickland (OK SU), Josh Lofton (OK SU), and Sangmesh Angadi (NMSU). USDA - NIFA. USD 3,200,000.

## Fellowships, Honors, and Awards

Iowa State Foreign Travel Grant. 2019

Yale-Embrapa Research Grant. 2012-2017

Yale MacMillan Center Grant. 2012 and 2016

Yale Latin American and Iberian Studies Travel Awards. 2015 and 2016

Yale Institute of Biospheric Studies Fellowship. 2014 and 2015

IIASA Young Scientist Summer Program. 2014

Teresa Heinz Environmental Scholarship. 2010

Rosemary Ripley Family Fund Grant. 2010

Tropical Resources Institute Fellowships. 2010 and 2012

Beta Gamma Sigma Honorary - University of North Carolina, Chapel Hill. 2002

Tropical Resources Institute Fellowships. 2010 and 2012

## Teaching

**Iowa State University**

2021-2022: Advanced Environmental Economics (Graduate, half-semester), Commodity Marketing and Risk Management (Undergraduate), Introduction to Agricultural Markets (Undergraduate)

2020-2021: Advanced Environmental Economics (Graduate, half-semester), Introduction to Econometrics (Undergraduate), Intermediate Environmental and Resource Economics (Undergraduate, half-semester), Commodity Marketing and Risk Management (Undergraduate)

2019-2020: Introduction to Agricultural Markets (two sections) (Undergraduate)

2018-2019: Introduction to Econometrics (Undergraduate), Commodity Marketing and Risk Management (Undergraduate)

2017-2018: Introduction to Econometrics (Undergraduate), Introduction to Agricultural Markets (Undergraduate)

#### **Yale University (Teaching Assistant)**

Economic Strategies for Developing Countries (MBA). Dr. Mushfiq Mobarak, 2016

Multivariate Statistics for Social Sciences (Masters). Dr. Reuning-Scherer, 2016

Economics of Energy and Climate Change (undergraduate). Dr. William Nordhaus, 2014

Energy Technology Innovation (Masters). Dr. Arnulf Grubler, 2014

Economics of the Environment (undergraduate). Dr. Robert Mendelsohn, 2014

Energy Systems Analysis (Masters). Dr. Arnulf Grubler, 2010 and 2012

## Advising

### **Major Advisor**

Behzad Jeddi Balabaygloo (ISU, 5th Year)

Erix Ruiz (ISU, 5th Year)

Seunghyun Han (ISU, 4th Year)

### **Committee Member**

Min Kyong Kim (ISU 6th Year), Eseul Choi (ISU 5th Year), Kyunghoon Ban (ISU 4th Year), Timothy "Jake" Smith (ISU 3rd Year), Mahendra Kumar Singh (ISU 3rd Year), Seung Jin Cho (Graduated - Associate Research Fellow at the Korea Institute for International Economic Policy), Wendiam Sawadg (Graduated - Assistant Professor at Auburn University), Brian Jackson (Graduated)

## Presentations

2021: Association of Environmental Resources Economics Annual Summer Conference (\*); Agricultural and Applied Economics Association Annual Meeting (\*); International Agricultural Trade Research Consortium Annual Meeting (\*); Missouri Valley Economic Association Annual Meeting (\*); Association of Environmental Resources Economics Section - Midwest Economics Association Annual Meeting (\*)

2020: Association of Environmental Resources Economics Annual Summer Conference; Agricultural and Applied Economics Association Annual Meeting; UCLA Climate Adaptation Symposium; Western Economic Association International Conference (\*); Association of Environmental Resources Economics Section - Midwest Economics Association Annual Meeting (\*)

2019: Midwest Economics Association Annual Meeting; Association of Environmental Resources Economics Section - Southern Economics Association Annual Meeting

2018: Agricultural and Applied Economics Association Annual Meeting; Midwest Economics Association Annual Meeting; Eastern Economics Association - Agricultural and Environmental Economics Session

2016: Association of Environmental Resources Economics Annual Summer Conference; 4th Canadian PhD and Early Career Workshop in Environmental Economics - University of Ottawa; Yale Environmental Economics Seminar; Yale-Embrapa Workshop on Climate Change, Brasilia, Brazil

(\*) presented by coauthor and advisee

## Professional Service

### *Referee Service*

*National Science Foundation*

*Journal of Environmental Economics and Management*

*Journal of the Association of Environmental and Resource Economists*

*Journal of Economic Behavior and Organization*

*European Review of Agricultural Economics*

*Agricultural Economics*

*Food Policy*

*Climate Change Economics*

*Annals of the Brazilian Academy of Science*

*PLOS One*

*Structural Change and Economic Dynamics*

*Sustainability*

*Agriculture*

### *Review Service*

*Association of Environmental Resources Economics Annual Meeting*

*Agricultural and Applied Economics Association Annual Meeting*

### *University Service*

Economics Computer Committee (2017, 2018, 2019, 2020 (Chair), 2021 (Chair))

Economics Department Microeconomics Theory Search Committee (2018-2019)

Economics Department Econometrics Theory Search Committee (2017-2018)

## Professional Affiliations

American Economic Association, Association of Environmental and Resource Economists, Agricultural and Applied Economics Association

## Previous Research and Professional Experience

### **Yale University**

Researcher - Yale-Embrapa Project on Climate Change Impacts and Adaptation in Brazil, 2012-2017

Research Assistant - Dr. Arnulf Grubler, 2013

### **Progress Energy**

Region Engineering Manager, Ocala, Florida, 2007-2009

Region Service Manager, Ocala, Florida, 2005-2007

Energy Delivery Analyst, Raleigh, North Carolina, 2002-2005

### **PricewaterhouseCoopers**

Principal Consultant, Rio de Janeiro, Brazil, 1998-2000

Consultant, Rio de Janeiro, Brazil, 1994-1998

## Personal Information

Married to Fabiana DePaula, two children: Carolina and Thomas

Brazilian Citizen, U.S. Permanent Resident

Languages: Portuguese and English

Last updated: February 2, 2022