# Guilherme DePaula

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## Academic Appointments

**California Polytechnic State University, San Luis Obispo**, *Associate Professor, Agribusiness Department*, August 2026-present

**Iowa State University**, *Assistant Professor of Economics*, August 2017-May 2026

**Center for Agricultural and Rural Development (CARD)**, *Affiliate*, August 2017-May 2026

## 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**, MESc., 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*

1. Jeddi, B. and **DePaula, G.** (2026): Environmental Impacts of Agricultural Intensification: Evidence from Brazil's Double-Cropping Boom. *Journal of Environmental Economics and Management*, 137:103286. https://doi.org/10.1016/j.jeem.2026.103286.

2. Jeddi, B. and **DePaula, G.** (2025): The economic value of a farmer network: an application to pest management in Iowa. *Agricultural and Resource Economics Review*, 54(2):440–471. https://doi.org/10.1017/age.2025.10007.
**Selected as the 2025 Article of the Year.**

3. Choi, E., **DePaula, G.**, P. Kyveryga, and S Fey (2025): The Trade-off between Yield and Nitrogen Pollution under Excessive Rainfall: Evidence from On-farm Field Experiments in Iowa. *Land Economics*. Apr 1; 101(2):230-61.

4. **DePaula, G.** and L. Veloso (2025): Comparing Market Instruments for Forest Conservation in Brazil using Farm-level Census Data. *Environment and Development Economics*. 1-31.

5. Asheesh K. Singh, Behzad J. Balabaygloo1, Barituka Bekee, Samuel W. Blair1, Suzanne Fey, Fateme Fotouhi, Ashish Gupta, Amit Jha, Jorge C. Martinez-Palomares, Kevin Menke, Aaron Prestholt, Vishesh K. Tanwar, Xu Tao, Anusha Vangala, Matthew E. Carroll, Sajal Das, **DePaula, G.**, Peter Kyveryga, Soumik Sarkar, Michelle Segovia, Simone Sylvestri, Corinne Valdivia (2024): Smart Connected Farms and Networked Farmers to Improve Crop Production, Sustainability and Profitability. *Frontiers in Agronomy*, 6, p.1410829.

6. **DePaula, G.** (2023): Bundled Contracts and Technological Diffusion: Evidence from the Brazilian Soybean Boom. *Journal of Development Economics* 165, p.103163.

7. **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.

8. **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

## *Chapters*

1. **DePaula, G.**, A. Fortes, V. R. Pereira, M. Oliveira, and A. Welle (2026). The Economics of Large-Scale Climate Adaptation in Brazilian Agriculture. In A. Dinar and R. Mendelsohn (eds.), *Handbook on Climate Change Impacts, Mitigation, and Adaptation in Agriculture*. Edward Elgar Publishing. Published June 2026.

## *Invited Articles*

1. **DePaula, G.**, Bundled contracts and technological diffusion caused the Brazilian soybean boom. VoxDev. Published 13.02.24.

## *Non-Peer Reviewed Publications*

1. Behzad, J., and **G. DePaula** (2025). "The Value of Farmer Networks When Heat Drives Pest Pressure." *Agricultural Policy Review*, Fall 2025 Edition. Center for Agricultural and Rural Development, Iowa State University.

2. Eseul Choi, **G. DePaula**, P. Kyveryga, and S. Fey. (2025). How Rainfall-Resilient are Midwestern Nitrogen Management Practices?, *Agricultural Policy Review*, Spring 2025 Edition. Center for Agricultural and Rural Development, Iowa State University.

3. 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. Center for Agricultural and Rural Development, Iowa State University.

4. **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. Center for Agricultural and Rural Development, Iowa State University.

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

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

7. **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

### *Working Papers*

1. **DePaula, G.**, B. Jeddi and D. Keiser, Water Reservoirs as Drought Adaptation: Economic and Demographic Impacts in Northeast Brazil.
2. He, X., **DePaula, G.**, and W. Zhang, Roads, Trade, and Development: Evidence from the Agricultural Boom in Brazil
3. **DePaula, G.**, Technology Adoption and the Agricultural Supply Response Function
4. **DePaula, G.**, Relational Contracts and Innovation: Evidence from the Double-cropping Boom in Brazil

### *Selected Work-in-Progress*

1. "Migration as Climate Adaptation: Evidence from 150 Years of Migration in Brazil's Semi-Arid Northeast". (with B. Jeddi and D. Keiser)
2. "The Drying Savanna". (with B. Jeddi and D. Keiser)
3. "The Impact of Extreme Weather on Risk Premiums: Evidence from Risk Reversals with Agricultural Commodity Options".
4. "Evaluating Market Barriers and Opportunities for Soybean Growth in the African Savannas" (with Walter Suza)
5. "Climate Adaptation and Innovation in Brazilian Agriculture" (with Ary Fortes)
6. "A Simulated Farm-level Panel Dataset for the 1996, 2006, and 2017 Brazilian Agricultural Census Surveys" (with Leandro Veloso)

## External Funding

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

## Awards

Faculty Early Achievement in Teaching Award. Iowa State University. College of Agriculture and Life Sciences. March 2024.

## Fellowships and Honors

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 Scientists Summer Program, 2014

Tropical Resources Institute Fellowships, 2010 and 2012

Teresa Heinz Environmental Scholarship, 2010

Rosemary Ripley Family Fund Grant, 2010

Beta Gamma Sigma, University of North Carolina at Chapel Hill, 2002

## Teaching

**California Polytechnic State University, San Luis Obispo - Course Sessions**

2026-2027: Agricultural Economics (AGB 2212 - Undergraduate), Agricultural Personnel Management (AGB 3369 - Undergraduate)

**Iowa State University - Course Sessions**

2025-2026 (scheduled): Introduction to Econometrics (ECON371 - Undergraduate), Commodity Marketing and Risk Management (ECON437 - Undergraduate), Introduction to Agricultural Markets (ECON235 - Undergraduate)

2024-2025: Introduction to Econometrics (ECON371 - Undergraduate), Commodity Marketing and Risk Management (ECON437 - Undergraduate)

2023-2024: Advanced Environmental Economics (ECON581 - Graduate), Commodity Marketing and Risk Management (ECON437 - Undergraduate), Introduction to Econometrics (ECON371 - Undergraduate)

2022-2023: Commodity Marketing and Risk Management (ECON437 - Undergraduate), Introduction to Econometrics (ECON371 - Undergraduate)

2021-2022: Advanced Environmental Economics (ECON581 - Graduate, half-semester. Joint with W. Zhang), Commodity Marketing and Risk Management (ECON437 - Undergraduate), Introduction to Agricultural Markets (ECON235 - Undergraduate)

2020-2021: Advanced Environmental Economics (ECON581 - Graduate, half-semester. Joint with W. Zhang), Introduction to Econometrics (ECON371 - Undergraduate), Intermediate Environmental and Resource Economics (ECON481 - Undergraduate, half-semester), Commodity Marketing and Risk Management (ECON235 - Undergraduate)

2019-2020: Introduction to Agricultural Markets (two sections) (ECON235 - Undergraduate)

2018-2019: Introduction to Econometrics (ECON371 - Undergraduate), Commodity Marketing and Risk Management (ECON437 - Undergraduate)

2017-2018: Introduction to Econometrics (ECON371 - Undergraduate), Introduction to Agricultural Markets (ECON235 - Undergraduate)

**Yale University (Teaching Assistant) - Course Sessions**

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 PhD Economics, 2026; Economics Instructor, Des Moines Area Community College, Ankeny)

Leandro Veloso (UFRJ PhD Computer Science, $5^{th}$ Year)

James Gbeda (ISU Master Economics) (Graduated - Economic Analyst, College of Business and Economics, Western Washington University)

Paige Dvorak (ISU Master Agricultural Economics) (Graduated - Senior Credit Development Associate, CoBank)

**Committee Member**

Kyunghoon Ban (Graduated PhD - Assistant Professor. Department of Finance and Accounting. Saunders College of Business), Eseul Choi (Graduated PhD - Economist - Bank of Korea), Timothy "Jake" Smith (Graduated PhD - Post Doctoral Student at ISU), Seung Jin Cho (Graduated PhD - Associate Research Fellow at the Korea Institute for International Economic Policy), Wendiam Sawadg (Graduated PhD - Assistant Professor at Auburn University), Brian Jackson (Graduated Master)

# Presentations

2025 Association of Environmental Resources Economics Annual Summer Conference (June 2025); Workshop for the Handbook of Climate Adaptation in Agriculture (June 2025); Southern Economics Association Annual Meeting (discussant participation scheduled for November 2025); Midwest Economics Association Annual Meeting: Association of Environmental Resources Economics Section (panel presentation scheduled for March 2025).

2024 Association of Environmental Resources Economics Annual Summer Conference; Eastern Economic Association Annual meeting: Association of Environmental Resources Economics Section; Midwest Economics Association Annual Meeting: Association of Environmental Resources Economics Section.

2023 Western Economic Association International Annual Meeting: Association of Environmental Resources Economics Section.

2022 The Heartland Environmental and Resource Economics Workshop at the University of Illinois Urbana-Champaign; Association of Environmental Resources Economics Annual Summer Conference;

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 advisee

# Professional Service

## *Referee Service*

*National Science Foundation*; *Journal of Development Economics*; *Journal of Environmental Economics and Management*; *Journal of the Association of Environmental and Resource Economists*; *Journal of Economic Behavior and Organization*; *American Journal of Agricultural Economics*; *European Review of Agricultural Economics*; *Agricultural Economics*; *Agricultural and Resource Economics Review*; *Food Policy*; *Climate Change Economics*; *Annals of the Brazilian Academy of Sciences*; *PLOS ONE*; *Structural Change and Economic Dynamics*; *Sustainability*; *Agriculture*; *Journal of the Agricultural and Applied Economics Association*; *Environmental Research Letters*.

## *Review Service*

*Association of Environmental and Resource Economists Annual Meeting*; *Agricultural and Applied Economics Association Annual Meeting*; *Southern Economic Association Annual Meeting*.

## *University Service*

Economics Computer Committee, Iowa State University (2017–2024; Chair, 2020–2024)

Microeconomic Theory Faculty Search Committee, Department of Economics, Iowa State University (2018–2019)

Econometrics Faculty Search Committee, Department of Economics, Iowa State University (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: September 25, 2026