

Andrea Pacheco

Interdisciplinary Environmental Scientist

Economics of Sustainable Land-use – Institute for Food and Resource Economics, University of Bonn

[Google Scholar](#) (h-index = 5) | [Website](#)

Education

- Dr. rer. nat.
2017 – 2022 Environmental economics/Macroecology
Thesis title: Influence of land tenure on global environmental change: effects on deforestation and biodiversity in Brazil
German Centre for Integrative Biodiversity Research (iDiv)/Martin-Luther-Universität Halle-Wittenberg
Final grade: magna cum laude
- M.Sc.
2015-2016 Management and Conservation of Tropical Forests and Biodiversity
Thesis title: Climate Change Governance: the case of land-use based emissions MRV systems in Central America and the Dominican Republic
Tropical Agricultural Research and Higher Education Center (CATIE), Costa Rica
Final grade: 91.48 (out of 100)
- B.A.
2009-2013 Major: International Development Studies
(Second Major: Art – Photography, Minor: Biology)
Houghton College, New York, USA
Final grade: 3.648 (out of 4.0) (cum laude honors)

Professional experience

- Sep 2022-present Post-doctoral researcher
Institute for Food and Resource Economics, University of Bonn
Using econometric, geospatial, and synthesis methods to research the impact of non-food biomass trade on biodiversity outcomes in Brazil and Central Africa as a part of the EU-funded project, “Creating Leverage to Enhance Biodiversity Outcomes of Global Biomass Trade” (CLEVER).
- Feb 2022-2024 Fellow for the IPBES Nexus Assessment
Co-authoring parts of the thematic assessment on the interlinkages among biodiversity, water, food, health, and climate. Specifically working on Chapter 6, “Options for delivering sustainable approaches to public and private finance”.
- Oct 2017 – Sep 2021 Scientific employee/Doctoral researcher
German Centre for Integrative Biodiversity Research (iDiv) (Leipzig, Germany)
Conducted research over large spatiotemporal scales using econometric analyses, spatially explicit models, and synthesizing results across scales to understand the effects of land tenure on environmental conservation outcomes in Brazil.
- Aug 2016 – May 2017 Research assistant
Latin-American chair of environmental decision-making for global change / LEDSenLAC: Low-emissions Development Strategies in Latin America and the Caribbean (Turrialba, Costa Rica)
Data cleaning, social-network analysis, interviews, and support for ongoing research on drought and risk governance in Costa Rica as well as climate change mitigation strategies in Latin America.
- Aug. 2014 – Dec 2014 Consultant – MOPAWI (Tegucigalpa/La Mosquitia, Honduras)
Interviews and writing reports of the non-profit’s work in conservation and indigenous people’s rights over 30 years.

Aug 2013 – Jun 2014	<u>Design and Communications</u> <u>Jericho Road Community Health Center</u> (Buffalo, New York) Program and fundraising support to a community health center catering to refugee and migrant populations in Buffalo.
Sept. 2010 – May 2012	<u>Teaching Assistant</u> <u>Houghton College</u> (Houghton, New York) Assisted and taught undergraduate courses in: Spanish grammar and conversation, Scuba Diving study abroad in Honduras, Food Security and Public Health study abroad in Ecuador

Conferences & invited talks

- “Influence of land tenure on environmental change: effects on deforestation and biodiversity in Brazil”. Bangor University. January 2023.
- “Integrating Land System Science and Conservation Science for deeper insights into conservation challenges and opportunities” (Conference symposium). 6th *European Congress of Conservation Biology*, Prague, Czech Republic, August 2022
- “Land tenure regimes determine tropical deforestation rates across socio-environmental contexts” (Conference talk). 26th *Annual Conference of the European Association of Environmental and Resource Economists*, Berlin (online only), Germany, June 2021.
- “The Importance of Tenure Form in Avoiding Forest Conversion: 30+ Years of Evidence from Brazil” (invited talk). USAID. April 2021.
- “Effects of land tenure form on deforestation in Brazil: preliminary results from a quasi-experimental setup” (Conference talk). *iDiv Conference*, Leipzig, Germany, August 2019. (awarded 3rd place for best conference talk)
- “Effect of land tenure on agriculture-forest dynamics: preliminary results from Latin America” (Conference talk). *Open Science Meeting, Global Land Programme*, Bern, Switzerland, April 2019.
- “Towards a global land governance database” (Poster presentation). *Land and Poverty Conference*, World Bank, Washington D.C., March 2018.

Software skills

R/RStudio	<u>Advanced</u> : Data wrangling and manipulation (<i>base</i> and <i>tidyverse</i> , <i>sqldf</i>), Spatial data analysis using both large vector databases and gridded environmental layers (<i>sf</i> , <i>rgdal</i> , <i>raster</i>), statistics/econometric analysis (matching with <i>cem</i> / <i>matchIt</i> , <i>margins</i> , meta-analyses using <i>metaphor</i> , <i>stats</i> , regression analysis using <i>glm</i> , <i>mice</i> and <i>miceadds</i>), data visualization (<i>ggplot</i>)
High-Performance Computing	<u>Intermediate</u> : writing/running scripts for job parallelization of computationally intensive analyses (<i>Slurm Workload Manager</i>)
Github/Gitlab	<u>Intermediate</u> : basic version control of personal scientific projects (https://github.com/pacheco-andrea).
Python	<u>Beginner</u> : can follow basic scripts for spatial data analysis

Languages

English	Full proficiency (C2-level)
Spanish	Native speaker
Portuguese	Advanced (C1-level)
German	Basic communication (B1-level, Telc certificate)

Participation in courses and workshops

Sep. 2017	Potsdam Summer School: Human Environments in a Changing World (Potsdam, Germany)
Nov. 2016	II International Course: Theory, tools, and processes for implementing and planning climate change mitigation and adaptation: leadership, decision-making, and governance for mobilizing from knowledge to action. Tropical Agricultural Research and Higher Education Center (CATIE) (Turrialba, Costa Rica)
Jun. 2016	Workshop on Forest Degradation: Elements for its definition, methods, and tools. UN-REDD Program, SilvaCarbon, CATIE, and the office of Energy, Natural Resources, Environment, and Mining of Honduras (SERNA) (Tegucigalpa, Honduras)
Apr. 2012	Symposium: Natural Resources and Development in Africa Institute for African Development (Cornell University, New York)

Scholarships/Grants

Aug 2022	Awarded 1000€ from the iDiv Female Science Career Fund to participate in the conference symposium “Integrating Land System Science and Conservation Science for deeper insights into conservation challenges and opportunities” of the 6th European Congress of Conservation Biology in Prague, Czech Republic.
Nov 2017	Awarded 2000€ from the iDiv Science Policy Shadowing Programme to meet with various land-tenure-data stakeholders in Washington D.C. including contacts at the World Bank, the World Resources Institute, and the Rights and Resources Initiative.
Jan. 2015 – Dec. 2016	Full scholarship from United States Agency of International Development through the Regional Program of Climate Change for a Master’s degree in Management and Conservation of Forests at CATIE, Costa Rica
Aug. 2009 – May. 2013	Scholarship awards from Houghton College to complete undergraduate studies: Barnabas Student Leadership Award, Dean’s Honor List, Student Activity Scholarship, HC Excellence Scholarship, HC Performance Art Scholarship.

References available upon request