

# MARCOS BARROZO

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# HARVARD UNIVERSITY

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## Education

### Harvard University

Ph.D. in Public Policy, 2018 to 2024 (expected)

### Middlebury College

BA, Economics (Mathematics minor), 2017

## Fields

Environmental Economics, International Trade, Industrial Organization

## References

Professor Joseph Aldy

joseph\_aldy@hks.harvard.edu

Professor Gordon Hanson

gordon\_hanson@hks.harvard.edu

Professor Marc Melitz

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## Job Market Paper

### Market Power and Carbon Emissions in the Amazon [\[Link\]](#)

The beef cattle sector is the leading driver of deforestation worldwide and a major source of carbon emissions. In this paper, I study how market power in the cattle supply chain shapes production and emissions in the Brazilian Amazon. Intermediaries exert buyer (monopsony) power over farmers, but market structure varies geographically. Using rich transaction-level data, I find that large intermediaries extract monopsony markdowns on farmer prices in core regions, but the deforestation frontier is largely competitive. I estimate a quantitative spatial model of the cattle supply chain and find that monopsony power distorts output downward. This affects farmers negatively, but the greatest sources of emissions along the frontier remain unaffected. In counterfactual analysis, policies that target the largest firms or exporters are ineffective because they miss deforestation hotspots and burden farmers that already face market power. However, a combination of targeted production subsidies and a carbon tax can reallocate production away from the frontier and reduce emissions by a third while keeping beef production constant.

## Papers in Progress

### Property Rights and the Dynamics of Deforestation

**Fidelity in Zero-Deforestation Supply Chains**, joint with M. Skidmore, H. Gibbs, L. Rausch

## Fellowships & Awards

International Economics PhD Fellowship, Dartmouth College, 2023

GSAS Merit Fellowship, Harvard University, 2022

Joseph Crump Fellowship, Harvard University, 2022

Bok Center Certificate of Distinction in Teaching, Harvard University, 2020, 2021, 2022

## Teaching

**Environmental Economics in Developing Countries** (Ec 970, solo taught), Harvard University, 2021 and 2022 (100% “excellent” overall evaluations both semesters)

**The Political Economy of Globalization**, teaching fellow for Lawrence Summers and Robert Lawrence, Harvard University, 2020 and 2021

## Employment

Analysis Group, Analyst, 2018

## Seminars & Conferences

2023: Dartmouth College/Tuck, Wisconsin AAE, Middlebury College, AERE Summer Conference, NEUDC

2022: AERE Summer Conference

**Academic Service** Vice-president and various other roles, Kennedy PhD Student Association, 2020-2023

**Research Grants** PEDL Early-Stage Grant, CEPR, 2022  
DoSS Grant, Harvard University, 2022  
Lemann Graduate Research Grant, Harvard University, 2022 and 2019  
Vicki Norberg-Bohm Fellowship, Harvard Kennedy School, 2021  
Weatherhead Pre-dissertation Grant, Harvard University, 2021

**Languages** Portuguese (native), English, Spanish