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Citizenship: French, Permanent Brazilian Residency

**Fields**

Primary: Development Economics  
Secondary: Environmental Economics, Applied Microeconomics

**Education**

Ph.D., Economics, Northwestern University	(expected) 2024
Dissertation: Essays on the Economics of Tropical Deforestation	
Committee: Christopher Udry (Co-chair), Seema Jayachandran (Co-chair), Jacopo Ponticelli	
M.A., Economics, Northwestern University	2021
B.A., Economics & Applied Mathematics, The George Washington University	2018

**Fellowships & Awards**

Dissertation Year University Fellowship, Northwestern University	2023-24
Distinguished Teaching Assistant Award, Northwestern University	2022, 2023
Ruggles Undergraduate Mathematics Prize, The George Washington University	2018
GW Undergraduate Research Award, The George Washington University	2017
<i>Phi Beta Kappa</i> , Academic Honor Society, The George Washington University	2017
Outstanding Academic Achievement Award, The George Washington University	2016
Athletic Scholarship (Tennis), The George Washington University	2014-18

**Research Experience**

Research Assistant, Prof. Ameet Morjaria, Northwestern University	2022
Research Assistant, Prof. Seema Jayachandran, Northwestern University	Winter 2021
Research Assistant, Prof. Christopher Udry, Northwestern University	Fall 2020
Research Assistant, Prof. Remi Jedwab, The George Washington University	2017

**Teaching Experience**

<b>Teaching Assistant, Northwestern University</b>	
Environmental Economics, Prof. Mark Witte	Winter 2023
Intermediate Microeconomics I, Prof. James Hornsten	Fall 2019 & Fall 2022
Introduction to Microeconomics, Prof. Eric Schulz	Spring 2022
Intermediate Microeconomics I, Prof. Eric Schulz	Winter 2022
Introduction to Microeconomics, Prof. Sara Hernandez	Winter 2020 & Spring, Fall 2021
Introduction to Microeconomics, Prof. Scott Ogawa	Spring 2020

**Job Market Paper**

**“Shifting Landscapes: The Impact of Agricultural Innovation on Deforestation”**

*Abstract:* This paper examines the effect of a new agricultural technology, namely genetically modified (GM) seeds, on deforestation in the Brazilian Amazon. Our empirical strategy leverages the heterogeneous effects that the introduction of GM soybean seeds had on agricultural productivity across areas based on soil and weather characteristics, and satellite data on land use. We show that increases in soy productivity lead to changes in the local composition of land use as soy replaces existing activities, namely pastures for cattle grazing.

This leads to a decrease in deforestation because soy cultivation is less land-intensive than cattle grazing. Next, we examine whether the reallocation of pastures elsewhere leads to deforestation. We find that pastures are displaced to areas connected by the road network, thereby causing deforestation. We conclude that the introduction of GM soy contributed to 7.4% of the total deforested area in the Brazilian Amazon between 2003 and 2010.

## Other Work in Progress

### “Deforestation in the Democratic Republic of the Congo” with Ameet Morjaria

*Abstract:* The conservation of forests is a key element of global efforts to slow climate change. In this study, we focus on the Democratic Republic of the Congo (DRC), which hosts the majority of the Congo Basin rainforest, the world’s second-largest such ecosystem. To study drivers of deforestation in the DRC, we compile a dataset that includes satellite imagery tracking deforestation, proprietary administrative data on mine openings and contracts, and geocoded information on conflicts. We employ a staggered adoption differences-in-differences design, leveraging variation in the timing of mine openings, to assess the impact of these openings on deforestation. The effect of mine openings on deforestation is ambiguous. On one hand, mines may shift labor allocation away from forest resource extraction to mineral exploitation, reducing deforestation. By contrast, an increase in local incomes and population due to mining activity may increase demand for land, increasing deforestation. Our preliminary findings indicate that the opening of mines leads to a decrease in deforestation, particularly in non-fire-related deforestation. We posit that this reduction in deforestation is linked to increased conflict that accompanies mine openings, which hinders local populations from benefiting from mining activities.

### “Excluded Women: The Fall of Female Labor Force Participation in Post-Industrial Revolution England” with Laura Murphy and Myera Rashid

*Abstract:* We study women’s labor market participation in England between 1851 and 1911 using newly digitized census microdata. We document three novel facts. First, women’s labor force participation rate slightly decreased between 1851 and 1911, driven by a 40% decrease among married women. Secondly, examining synthetic cohorts reveals that the drop in married women’s labor force participation is driven by younger cohorts choosing not to join the workforce, rather than older cohorts exiting at increasing rates. Lastly, we observe that women were predominantly employed in the textile and domestic service sectors. Our theoretical model suggests that increasing societal barriers may have influenced married women’s labor market engagement over time.

## Programming

Stata, Python, Google Earth Engine, ArcGIS/QGIS

## Professional activities

Conference organizer, Empirics and Methods in Economics Conference (EMCON)	2020
Development Lunch Seminar Organizer, Northwestern University	2019–20
Northwestern Graduate Mentorship Program Mentor	2019–21

## Languages

English (fluent), Portuguese (fluent), French (fluent), German (fluent), Spanish (working proficiency)

## References

Professor Christopher Udry Department of Economics Northwestern University 2211 Campus Drive Evanston, IL 60208 <a href="mailto:christopher.udry@northwestern.edu">christopher.udry@northwestern.edu</a>	Professor Seema Jayachandran Department of Economics Princeton University 126 Julis Romo Rabinowitz Building Princeton, NJ 08544 <a href="mailto:jayachandran@princeton.edu">jayachandran@princeton.edu</a>
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