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RESEARCH INTERESTS	Development Economics, Applied Microeconomics, Spatial Economics		
EDUCATION	CEMFI Ph.D. in Economics Dissertation: <i>"Essays on Economic Development and Productivity Across Space"</i> Visiting Ph.D. Student, Yale University, hosted by Prof. Mushfiq Mobarak	2025	2023
	Sciences Po, Paris 1 Panthéon-Sorbonne & Universitat Autònoma de Barcelona Master in Economics and Quantitative Economics (<i>double degree</i>)	2018	
	University of Tübingen B.Sc. in International Economics and European Studies Visiting Student, University of Guadalajara (Mexico)	2015	2014
REFERENCES	Prof. Diego Puga CEMFI diego.puga@cemfi.es	Prof. Paula Bustos Universitat Pompeu Fabra paula.bustos@upf.edu	Prof. Monica Martinez-Bravo CEMFI (<i>on leave</i>) monica.martinezbravo@gmail.com
RESEARCH	<p>“Trac(k)tors of Change: Monitoring, Tractor Mobility and Agricultural Mechanization in Kenya” (<i>Job Market Paper</i>)</p> <p><i>Abstract:</i> Limited access to mechanization constrains agricultural productivity in developing economies, where rental markets for capital goods remain thin. This paper studies how supply-side monitoring frictions shape the spatial allocation of capital in tractor rental markets in Kenya. I evaluate the introduction of a GPS tracking application that enables tractor owners to monitor operators remotely, combining high-frequency GPS data from around 1,200 tractors and nearly one million georeferenced fields with satellite imagery, an original farmer survey, and a quantitative spatial model. Following adoption, monitored tractors gradually expand their range of operations and reallocate toward areas with higher returns to mechanization, consistent with reduced monitoring costs and improved capital allocation. Remote sensing evidence shows that fields visited by monitored tractors exhibit more effective immediate land preparation and greater sustained vegetation growth than comparable nearby fields, suggesting productivity gains at destination. Model estimates indicate that digital monitoring reduces spatial misallocation by 15% and raises aggregate output by 2%, demonstrating the potential of digital technologies to enhance market efficiency in settings involving the delegated operation of mobile capital.</p> <p>“Advancing Corn Yield Mapping in Kenya Through Transfer Learning” (with Ahaan Bohra, Chenchen Ren, Shuo Chen and Yuchi Ma) <i>Remote Sensing</i>, 17(10), 1717.</p> <p>“Informality and the City Size Wage Premium: Evidence from Brazil”</p> <p>Work In Progress</p> <p>“Milky Way: Market Structure and Behavior of Informal Milk Traders” (with Guanghong Xu and Martin Nandelenga)</p> <p>“Ethnic Diversity and Technology Choice in Manufacturing”</p>		

Experience		
Research Assistant to Prof. Monica Martinez-Bravo, CEMFI		2022-2023
Research Assistant to Prof. Paula Bustos, CEMFI		2020-2021
Pre-doc Research Assistant to Prof. Francis Kramarz, CREST		2018-2019
Research Assistant, Institute for Applied Economic Research (IAW) Tübingen		2014-2015
FELLOWSHIPS, AWARDS & GRANTS	The Weiss Fund PhD Research Grant (PI, \$17,500) STEG Small Research Grant (PI, ~\$34,000) María de Maeztu PhD Exploration Grant, CEMFI (PI, ~\$1,800) PEDL Exploratory Research Grant (Co-PI, ~\$8,800) STEG PhD Research Grant (PI, ~\$4,700)	2023 2022 2021 2019
 	PhD Fellowship (FPI), Spanish State Research Agency (AEI) María de Maeztu PhD Track Excellence Scholarship, CEMFI	
TEACHING	Graduate <i>Quantitative Spatial Models</i> , CEMFI Summer School Teaching Assistant to Prof. Nick Tsivanidis (UC Berkeley) <i>Development Economics</i> , CEMFI Teaching Assistant to Prof. Monica Martinez-Bravo <i>Urban Economics</i> , CEMFI Teaching Assistant to Prof. Diego Puga	2024 2024, 2023 2022
PRESENTATIONS	Undergraduate <i>Big Data: Applications to Spatial Data</i> , CEMFI Summer Internship Program Instructor <i>Mathematics for Economists</i> , University of Tübingen Teaching Assistant to Prof. Thomas Dimpfl	2022 2012
SERVICE	CEPR Paris Symposium PhD Poster Sessions (<i>scheduled</i>) NEUDC (Tufts University) (<i>scheduled</i>) Firms, Labor Markets, and Development Workshop (University of Bari) Universitat Pompeu Fabra (Internal Applied Lunch Seminar) Universitat Pompeu Fabra (CREI International Lunch Workshop) Yale University (Development Lunch), CAGE Summer School (University of Warwick) PEDL Young Scholars Matchmaking Workshop (NYU Abu Dhabi)	2025 2024 2023 2022
OTHER PROFESSIONAL EXPERIENCE	Evaluation Unit Intern, Development Co-operation Directorate, <i>OECD</i> , Paris M&E Junior Consultant, <i>German Technical Cooperation Agency (GIZ)</i> , Rwanda Intern, Promotion of the Economy and Employment, <i>GIZ</i> , Rwanda Economic Division Associate, <i>Permanent Mission of Germany to the UN</i> , Geneva	2017 2016 2015
ADDITIONAL INFORMATION	<i>Programming</i> : Stata, Python, QGIS, Matlab, R <i>Languages</i> : German (native), English (fluent), Spanish (fluent), French (advanced)	