

Joaquín Barrutia Álvarez

Research Assistant, CIE

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Education

UPPSALA UNIVERSITY, UPPSALA, SWEDEN

M.A., Economics 2022-2024

ITAM, MEXICO CITY, MEXICO

Diploma, Data Science & Machine Learning Applied to Financial Markets 2021-2022

B.A. (Honors), Economics 2016-2021

We Both Step and Do Not Step in the Same Rivers: Municipal Cooperation and Water Pollution Spillovers in Mexico (Advisor: Emilio Gutiérrez).

Experience

CENTER FOR ECONOMIC RESEARCH (CIE), ITAM, MEXICO CITY

Research Assistant 2022-

Working in a Mercury Project research team with Antonella Bandiera (ITAM), Horacio Larreguy (ITAM), and John Marshall (Columbia), partnering with fact-checkers in Kenya, South Africa, and Bolivia, conducting two studies to test approaches to counter misinformation.¹

Some of my tasks include: using Twitter API to retrieve user information, cleaning data, running regression analysis, training and using Machine Learning models to predict outcomes, setting Twitter Ad Campaigns and collecting their data.

UNIFIN FINANCIERA, MEXICO CITY

Structured Finance Analyst 2020-2022

Skills & Relevant Coursework

SOFTWARE

Microsoft Office, L^AT_EX, Python, QGIS, R

LANGUAGES

Spanish (native), English (fluent), Mandarin Chinese (HSK1)

RELEVANT COURSEWORK

Microeconomic Theory (ITAM, UU), Macroeconomic Theory (ITAM, UU), Econometric Theory (ITAM, UU), Applied Microeconometrics (ITAM, UU), Linear Algebra (ITAM), Real Analysis (ITAM), Univariate and Multivariate Calculus (ITAM), Probability Theory (ITAM), Statistical Inference (ITAM), Applied Macroeconometrics (ITAM)

¹[Harnessing influencers to counter misinformation: Scalable solutions in the Global South.](#)

Research Interests

Development Economics, Cooperative Economics, Income Distribution

Academic Awards

First Place. Undergraduate Thesis. Premio ExITAM —Best thesis in Economics. 2023

Honorific Mention. Undergraduate Thesis. [Citibanamex Economics Prize](#). 2021

ITAM Special Mention Distinction. Awarded to students with an outstanding thesis defense and a final average grade above 8.5 out of 10. 2021

First Place. ITAM Hagamos Eco 1. Awarded for the production of audiovisual material explaining concepts for the Economics 101 course. 2021

Scholarships and Fellowships

FIDERH (Fund for Human Resource Development), Banco de México. 2023

ITAM 50 percent academic excellence scholarship for BA studies. 2016 - 2019