

# Joaquín Barrutia Álvarez

Pre-Doctoral Fellow, Georgetown University

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## Education

UPPSALA UNIVERSITY, UPPSALA, SWEDEN

M.Sc., Economics 2022-2024

INSTITUTO TECNOLÓGICO AUTÓNOMO DE MÉXICO (ITAM), MEXICO CITY, MEXICO

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

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

*Thesis: [We Both Step and Do Not Step in the Same Rivers: Municipal Cooperation and Water Pollution Spillovers in Mexico](#) (Supervisor: [Emilio Gutiérrez, Ph.D.](#))*

## Experience

GEORGETOWN UNIVERSITY, WASHINGTON, D.C.

Pre-Doctoral Fellow 2023-

*Working as a Predoctoral Research Fellow with [Dr. Laurent Bouton](#) (Georgetown) through the United Programs for Political Economy Research ([UPPER Network](#)) as part of the Global Research Training Initiative.*

CENTER FOR ECONOMIC RESEARCH ([CIE](#)), ITAM, MEXICO CITY

Research Assistant 2022-

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

*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

## Research Interests

Applied Econometrics, Cooperative Economics, Development Economics, Political Economy

## Skills & Relevant Coursework

SOFTWARE

Microsoft Office, L<sup>A</sup>T<sub>E</sub>X, Python, QGIS, R

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

## 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), Matrix Algebra (ITAM), Real Analysis (ITAM), Univariate and Multivariate Calculus (ITAM), Probability Theory (ITAM), Statistical Inference (ITAM), Applied Macroeconometrics (ITAM)

## Additional Training

UNIVERSITY OF IOANNINA & UNIVERSITY OF PIRAEUS, SPETSES, GREECE

5th Summer School in Advanced Economics (Lecturer: Jeffrey M. Woolridge, Ph.D.) 2023  
*Course on Causal Inference, Potential Outcomes and Difference-in-Differences estimation.*

## CAUSAL SOLUTIONS

Difference-in-Differences Designs (Lecturer: Pedro H. C. Sant'Anna, Ph.D.) 2023

## Academic Awards

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

Honorable Mention (Top 3). 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

Uppsala University International Scholarship Fund for an extra course. 2023

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

## References

Horacio Larreguy  
Associate Professor  
ITAM

Mexico City, Mexico

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Antonella Bandiera  
Assistant Professor  
ITAM

Mexico City, Mexico

✉ [antonella.bandiera@itam.mx](mailto:antonella.bandiera@itam.mx)

John Marshall

Associate Professor

Columbia University

New York, United States

✉ [jm4401@columbia.edu](mailto:jm4401@columbia.edu)