

Jafet Alejandro BACA OBANDO

Ph.D. Student | Emory University

 jbacaob.com  [jbacaob](https://www.linkedin.com/in/jbacaob)  [jbacaob](https://github.com/jbacaob)  jbacaob@emory.edu  Atlanta, GA

EDUCATION

- Present* **Emory University | Ph.D. in Economics, GA**
- Aug. 2022*
- Focus areas: Monetary Economics, International Economics, Macroeconometrics
 - Relevant coursework: Microeconomic Theory I and II, Macroeconomic Theory I and II, Probability Theory and Statistical Inference, Econometric Methods I and II, Monetary/Financial Economics, Topics in Macroeconomics and Finance.
 - Incoming courses: Computational/Empirical Economics, Topics in Macroeconomics and Finance (II), Advanced Microeconometrics.
- Apr. 2021* **Universidad Centroamericana | Bachelor's Degree in Applied Economics, Nicaragua**
- GPA: 97.21/100.00; Magna Cum Laude distinction

PROFESSIONAL EXPERIENCE

- Present* **Graduate Assistant | Office of Global Strategy and Initiatives, Emory University, GA**
- Sep. 2023*
- Leads the update and redesign of Emory's Global Engagement Map.
 - Collects, analyzes, organizes, and visualizes data to showcase the scope of Emory University's global engagement initiatives.
- Jun. 2021* **Junior Economist of Quantitative Analysis | FUNIDES, Nicaragua**
- Jul. 2020*
- Prepared literature reviews on the COVID-19 context and supported contagion forecasting for quarterly Situation Reports.
 - Managed, cleaned, and formatted COVID-19 pandemic data from various sources (Johns Hopkins University, Bloomberg, The New York Times COVID-19 Tracker, Nicaraguan COVID-19 Citizen Observatory) using R.
 - Extracted and analyzed data from the Quarterly Budget Settlement Reports of Nicaragua for 2006-2021 using R.
- Jun. 2020* **Junior Economist of Social Studies | FUNIDES, Nicaragua**
- Jul. 2019*
- Cleaned, processed, and analyzed data from the "2019 Multiple Purposes Social Survey" using Stata.
 - Provided research assistance for the studies "PROGRESA-Caribe, Final Evaluation Report" and "Migration and Forced Displacement Dynamics of Nicaraguans in the Context of the Socio-Political Crisis."

TEACHING

- Present* **Teaching Assistant | Emory University, GA**
- Aug. 2023*
- Spring 2024 - Macroeconomic Theory II (Graduate), Prof. Kaiji Chen, Ph.D.
 - Fall 2023 - Experimental Economics (Undergraduate), Prof. Kelli Lanier, Ph.D.
 - Fall 2023 - Behavioral Economics and Finance (Undergraduate), Prof. Kelli Lanier, Ph.D.

- Nov. 2020 **Teaching Assistant | Universidad Centroamericana, Nicaragua**
- Jan. 2020
- Fall 2020 - Econometrics II (Time Series Econometrics, Undergraduate), Prof. A. López-Espinoza, M. Sc.
 - Spring 2020 - Macroeconomics II (Intermediate Macroeconomics, Undergraduate), Prof. C. Pacheco, M. Sc.

VOLUNTEERING

- Present **Laney Graduate School EDGE Ambassador | Emory University, GA**
- Sep. 2023
- Supports establishing and enhancing a diverse graduate community at Emory University through the facilitation of EDGE (Emory Diversifying Graduate Education).
 - Assists with related projects.
- Jul. 2022 **Euclidean Geometry Instructor | Academia Sabatina de Jóvenes Talento, Nicaragua**
- Oct. 2016
- Lectured on problem-solving strategies related to Euclidean Geometry.
 - Designed problems and exams aimed at selecting Nicaraguan delegations for international mathematical competitions.
- Jun. 2019 **Learning Assistant | Universidad Centroamericana, Nicaragua**
- Feb. 2019
- Taught additional lessons on Differential and Integral Calculus for first-year Applied Economics students.

PUBLICATIONS

Working Papers and Essays

- Dec. 2021 **J. Baca.** *Shock Symmetry and Business Cycle Synchronization. Is Monetary Unification Feasible Among CAPADR Countries?* [Paper](#)
- Nov. 2021 **J. Baca.** *Crecimiento Económico y la Restricción Externa en un Contexto Multisectorial y Multilateral: El Caso de Nicaragua.* Banco Central de Nicaragua, Documento de Trabajo 85. [Paper](#)
- Sep. 2020 **J. Baca.** *La Humanidad frente a los Retos Globales: COVID-19. Un Análisis desde una Perspectiva Socioeconómica.* Universidad Centroamericana. [Paper](#)

Mathematical Contributions

- Mar. 2020 **J. Baca.** *On Mixtilinear Incircles.* Mathematical Reflections, Volume 2020-2. [Paper](#)
- Jan. 2019 **J. Baca.** *On a Special Center of Spiral Similarity.* Mathematical Reflections, Volume 2019-1. [Paper](#)

TECHNICAL SKILLS

- Software** R, Python, MATLAB, Stata, EViews, Git, SQL, \LaTeX
- Language** Spanish (native), English (advanced)

SELECTED AWARDS

Academic Honors

- Nov. 2020* **Award in Economics, Finance, and Development, Central Bank of Nicaragua.** Third place with the research paper “Economic Growth and the External Constraint in a Multisectoral and Multilateral Framework: The Case of Nicaragua”.
- May 2020* **Knowledge Production Contest, Universidad Centroamericana.** First place in essay category with the work “Humanity in the face of Global Challenges: COVID-19. An Analysis from a Socio-Economic Perspective”.
- 2017-2020* **Faculty of Business and Economic Sciences, Universidad Centroamericana.** Academic Excellence Certificates.

Mathematics Competitions

- Oct. 2016* **31st Iberoamerican Mathematical Olympiad, Chile.** Bronze medal.
- Sep. 2016* **4th Iranian Geometry Olympiad.** Silver medal, advanced level.
- Jul. 2015* **56th International Mathematical Olympiad, Thailand.** Honorable mention.