

# Jafet Alejandro BACA OBANDO

Ph.D. Student | Emory University

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## EDUCATION

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- 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

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- 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

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- Present*   **Teaching Assistant | Emory University, GA**
- Aug. 2023*
- Spring 2024 - ECON 611 (Macroeconomic Theory II, Graduate), Prof. Kaiji Chen, Ph.D.
  - Fall 2023 - ECON 310 (Experimental Economics, Undergraduate), Prof. Kelli Lanier, Ph.D.
  - Fall 2023 - ECON 415 (Behavioral Economics and Finance, Undergraduate), Prof. Kelli Lanier, Ph.D.
- Nov. 2020*   **Teaching Assistant | Universidad Centroamericana, Nicaragua**
- Aug. 2020*
- Econometrics II (Time Series Econometrics, Undergraduate), Prof. A. López-Espinoza, M. Sc.
- May 2020*   **Teaching Assistant | Universidad Centroamericana, Nicaragua**
- Jan. 2020*
- Macroeconomics II (Intermediate Macroeconomics, Undergraduate), Prof. C. Pacheco, M. Sc.

## VOLUNTEERING

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- 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

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### 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

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

## SELECTED AWARDS

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### 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*    **31<sup>st</sup> Iberoamerican Mathematical Olympiad, Chile.** Bronze medal.

*Sep. 2016*    **4<sup>th</sup> Iranian Geometry Olympiad.** Silver medal, advanced level.

*Jul. 2015*    **56<sup>th</sup> International Mathematical Olympiad, Thailand.** Honorable mention.