

# JAFET ALEJANDRO BACA OBANDO

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## EDUCATION

Emory University 2022–2027 (expected)

- Academic interests: Monetary Economics, International Macroeconomics, Macroeconometrics

Universidad Centroamericana Apr. 2021

- B.A. Magna Cum Laude, Applied Economics
- Cumulative GPA: 97.21/100

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## PROFESSIONAL EXPERIENCE

Federal Reserve Bank of Atlanta May 2024–Present

*Economic Analyst*

Atlanta, GA

Emory University Sep. 2023–May 2024

*Graduate Assistant at the Office of Global Strategy and Initiatives*

Atlanta, GA

FUNIDES Jul. 2020–Jun. 2021

*Junior Economist of Quantitative Analysis*

Managua, Nicaragua

FUNIDES Jul. 2019–Jun. 2020

*Junior Economist of Social Studies*

Managua, Nicaragua

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## TEACHING AND RESEARCH ASSISTANCE

Emory University Aug. 2023–present

*Teaching Assistant*

Atlanta, GA

- Fall 2024 - Macroeconomic Theory I (Graduate), Prof. Vivian Yue, Ph.D.
- Fall 2024 - International Economics (Undergraduate), Prof. Vivian Yue, Ph.D.
- Fall 2024 - Quantitative Methods II (Graduate), Prof. Daniel Levy, Ph.D.
- Fall 2024 - Quantitative Methods I (Graduate), Prof. Daniel Levy, Ph.D.
- 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.

Emory University Aug. 2023–Dec. 2023

*Research Assistant*

Atlanta, GA

- Fall 2023 - Prof. Maria Arbatskaya, Ph.D.: Dynamic group contests, communication, data analysis

Universidad Centroamericana Jan. 2020–Nov. 2020

*Teaching Assistant*

Managua, Nicaragua

- Fall 2020 - Time Series Econometrics (Undergraduate), Prof. Alvaro López-Espinoza, M. Sc.
- Spring 2020 - Intermediate Macroeconomics (Undergraduate), Prof. Camilo Pacheco, M. Sc.

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## VOLUNTEERING

Emory University <i>Laney Graduate School EDGE Ambassador</i>	Sep. 2023–present
Academia Sabatina Jóvenes Talento - Nicaragua <i>Euclidean Geometry Instructor</i>	Oct. 2016–Jul. 2022
Universidad Centroamericana - Nicaragua <i>Learning Assistant</i>	Feb. 2019–Jun. 2019

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## PUBLICATIONS

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### WORKING PAPERS AND ESSAYS

- **J. Baca.** Shock Symmetry and Business Cycle Synchronization. Is Monetary Unification Feasible Among CAPADR Countries? *Dec. 2021*
- **J. Baca.** Crecimiento Económico y la Restricción Externa en un Contexto Multisectorial y Multilateral: El Caso de Nicaragua. *Nov. 2021*
- **J. Baca.** La Humanidad frente a los Retos Globales: COVID-19. Un Análisis desde una Perspectiva Socioeconómica. *Sep. 2020*

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### MATHEMATICAL CONTRIBUTIONS

- **J. Baca.** On Mixtilinear Incircles. In Andreescu, T., & Ignatiuc, M. (Eds.), *Mathematical Reflections, Two Lockdown Years (2020-2021)*, 455-483. XYZ Press. 2022. First published in *Mathematical Reflections*, 2020-2.
- **J. Baca.** On a Special Center of Spiral Similarity. In Andreescu, T., & Ignatiuc, M. (Eds.), *Mathematical Reflections, Two Beautiful Years (2018-2019)*, 471-486. XYZ Press. 2021. First published in *Mathematical Reflections*, 2019-1.

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## CONFERENCES

- **Second Summer School in International Economics.** Organized by the Journal of International Economics (Elsevier) and the Department of Economics at the University of Oxford. *Jul. 2024*

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## TECHNICAL SKILLS

**Software:** Julia, Python, MATLAB, Stata, R, EViews, Git, LaTeX  
**Language:** Spanish (native), English (advanced)

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## SELECTED AWARDS

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## ACADEMIC HONORS

- **Award in Economics, Finance, and Development, Central Bank of Nicaragua.** Third place with the research paper “Crecimiento Económico y la Restricción Externa en un Contexto Multisectorial y Multilateral: El Caso de Nicaragua”. *Nov. 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”. *May 2020*
- **Faculty of Business and Economic Sciences, Universidad Centroamericana.** Academic Excellence Certificates. *2017–2020*

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#### **MATHEMATICS COMPETITIONS**

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