

# Briam E. Guerrero Batista

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## Education

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<b>Paris School of Economics (PSE) - Sorbonne School of Economics</b> Master of Research in Economics (M2 Recherche APE)	Paris, FR 2024–2025
<b>Paris School of Economics (PSE) - Sorbonne School of Economics</b> Master of Science in Quantitative Economics (M1 APE)	Paris, FR 2023–2024
<b>Santo Domingo Institute of Technology (INTEC)</b> Master of Science in Applied Mathematics, GPA: 3.8/4.0	Santo Domingo, DR 2020–2023
<b>Santo Domingo Institute of Technology (INTEC)</b> Bachelor of Science in Economics, Summa Cum Laude, GPA: 3.9/4.0	Santo Domingo, DR 2016–2019

## Work Experience

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<b>Central Bank of the Dominican Republic</b> Economist II	Santo Domingo Sep. 2021–ago. 2023
<b>Central Bank of the Dominican Republic</b> Economist I	Santo Domingo Feb. 2020–sep. 2021
<b>Business Action for Education (EDUCA)</b> Research and Development Specialist	Santo Domingo Jun 2019–january 2020
<b>Group for National Productivity and Competitiveness (GPCN)</b> Technical Coordinator - Research Assistant	Santo Domingo Jun 2019–january 2020
<b>Business Action for Education (EDUCA)</b> Research Consultant	Santo Domingo April 2019–may 2019
<b>Valumonics</b> Associate	Santo Domingo April 2019–may 2029
<b>Valumonics</b> Financial Analyst	Santo Domingo Sep. 2017–march 2019

## Working Papers

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- B. Guerrero and M. Aquino, “Vulnerabilities of the Pension and Retirement Program of the Dominican Education System”, *2020 Working Paper #34: EDUCA (www.educa.org.do)*, Feb. 2020
- P. Acosta-Humánez, O. Bairan, J. Garcia, and B. Guerrero, “Hamiltonian of the Black-Scholes-Merton equation”, *ResearchGate*, Oct. 2021

## Academic Experience

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- **Teaching Assistant** in Santo Domingo Institute of Technology (INTEC) May 2017-april 2021  
*Microeconomics I (ECO303), Macroeconomics II (ECO306), Financial Economics (ECO327), Economic Development (ECO314), Econometrics I (ECO336), Econometrics II (ECO337), among others*
- **Substitute professor** in Santo Domingo Institute of Technology (INTEC) 2017-2019  
*Econometrics I, Econometrics II, International Economics I, Econometrics (MSc classes)*
- **Research thesis advisor** in Santo Domingo Institute of Technology (INTEC) 2019

## Research experience

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- **Research Assistant**, Dominican Observatory of Public Policies, Faculty of Legal and Political Sciences, UASD (October 2021-present)
- **Research Assistant**, Gon Huertas -International Monetary Fund (IMF) and Harvard's Growth Lab- Estimation of coefficients from the Taylor Rules of LATAM panel (May 2022-June 2022)
- **Methodological Consultant**, Comptroller General of the Dominican Republic, New Methodology for Obtaining Present Value of Past Contracts for Economic Balance Exercise, (February 2022-April 2022)
- **Technical Consultant**, National Treasury of the Dominican Republic, Development of an Econometric Model for the Forecast of Tax Revenues for a Cash Programming Project, assistant to Mr. José Adrian Vargas Barrantes, Former National Treasurer and Former Vice Minister of Finance from Costa Rica (August 2021-January 2022)
- **Research Assistant**, Business Action for Education (EDUCA), Expenditure Quality 2.0: Evaluation of the Quality, Efficiency, and Equity of Public Expenditure on Education in the Dominican Republic (June 2019-January 2020)
- **Research Assistant**, Business Action for Education (EDUCA), Evaluation of the Special Pension and Retirement Program for Teachers (June 2019-January 2020)
- **Technical Assistant, Book:** "Gazebo", **Authors:** Xavier Sala-i-Martin and Peter Prazmowski, GPCN (2020)

## Languages

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- **Spanish:** native
- **English:** advanced level
- **French:** basic level

## Computational Skills

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– R	– VBA	– Eviews	– Matlab	– SQL	– Octave
– Excel	– Stata	– LaTeX	– Python	– PowerBI	– Mathematica

## Complementary Studies

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- Financial Mathematics and Stochastic Calculus - **Center for Latin American Monetary Studies (CEMLA)** 2021
- National Accounts Statistics - **Regional Center for Technical Assistance for Central America, Panama and Dominican Republic (CAPTAC-DR) of the International Monetary Fund** 2021
- Big Data, Data Mining and Machine Learning - **Center for Latin American Monetary Studies (CEMLA)** 2021
- Diploma in Data Science - **Institute of the Americas (ITLA)** 2020
- Intermediate Programming - **Institute of the Americas (ITLA)** 2020

- Macroeconometric Forecasting - **International Monetary Fund** 2020
- Macroeconomic Accounts and Analysis - **International Monetary Fund** 2020
- Diploma in Applied Econometrics with R - **Institute of the Americas (ITLA)** 2019
- Advanced and Intermediate English Courses - **Dominican American Cultural Institute** 2017–2019
- Diploma in Applied Econometrics - **Foundation for the Advancement of Mathematics** 2017
- Microeconomics - **MIT (edX)** 2019
- Introduction to Corporate Finance - **Columbia University (edX)** 2019
- Intermediate R - **DataCamp** 2019

## Workshops

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- **PSE Macro Days: Structural changes and their implications for Macroeconomic Risks, Dynamics and Policies**, Paris School of Economics (PSE) (october 2023)
- **Globalization, Shipping and Trade**, Paris School of Economics (PSE) (october 2023)
- **Central Bank Macroeconomic Modeling**, Bank of the Republic - Colombia (november 2022)
- **Machine Learning and Casual Inference**, Prof. Brigham Frandsen, Brigham Young University. Mixtape Sessions by Scott Cunningham (november 2022)
- **Instrumental Variables**, Prof. Peter Hull, Brown University. Mixtape Sessions by Scott Cunningham (october 2022)

## Additional Information

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- **Coordinator**, First Diploma in Real Analysis for Economists in the Dominican Republic, together with professors Maria Penkova Vassileva and Felix Lara, Laboratory of Applied Mathematics, Santo Domingo Institute of Technology (INTEC) (November 2022)
- **Member**, PNC Dominican Republic ReLaCa Space - Latin American and Caribbean Space Network (October 2021-present)
- **Active member**, Rotaract INTEC University (July 2022-present)
- **Member**, Central Bank of the Dominican Republic Volunteer (February 2020-present)
- **Director of Professional Development**, Rotaract INTEC University (July 2021-June 2022)
- **Tutor on topics of differential equations, microeconomics and macroeconomics**, Grant holders from the Central Bank of the Dominican Republic (August 2021-December 2021)
- **Jury**, Santo Domingo - NASA International Space Apps Challenge (2022)
- **Mentor**, Santo Domingo - NASA International Space Apps Challenge (Oct. 2020 and Oct. 2020)
- **Winner**, Santo Domingo - NASA International Space Apps Challenge (2019)
- **National scholarship for postgraduate studies in science**, Ministry of Higher Education, Science and Technology (Santo Domingo, 2020)
- **Highest GPA of 8,000 scholarship recipients nationwide**, Ministry of Higher Education, Science and Technology (Santo Domingo, 2020)
- **Higher academic index**, Promotion of applied mathematics MSc (Santo Domingo Institute of Technology (INTEC), 2023)
- **Higher academic index**, Promotion of economy BSc (Santo Domingo Institute of Technology (INTEC), 2019)
- **Participant in the Annual Business and Economics Congress** (Santo Domingo Institute of Technology (INTEC), 2016)

## References

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- **Dr. Rolando Guzmán** +1(829)–717–9290  
*Economist, Research Professor, INTEC* (rolando.guzman@intec.edu.do)
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- **Prof. Apolinar Veloz** +1 (703)–786–3616  
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