




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EDUCATION

- **Paris School of Economics (PSE) - Sorbonne School of Economics** June 2025
Master of Research in Economics (M2 Recherche APE) Paris, France
- **Paris School of Economics (PSE) - Sorbonne School of Economics** June 2024
Master of Science in Quantitative Economics (M1 APE) Paris, France
- **Santo Domingo Institute of Technology (INTEC)** October 2023
Master of Science in Applied Mathematics Santo Domingo, DR
 - GPA: 3.8/4.0
- **Santo Domingo Institute of Technology (INTEC)** April 2019
Bachelor of Science in Economics (Summa Cum Laude) Santo Domingo, DR
 - GPA: 3.9/4.0

EXPERIENCE

- **Central Bank of the Dominican Republic** Sep. 2021 – Aug. 2023
Economist II Santo Domingo, DR
- **Central Bank of the Dominican Republic** Feb. 2020 – Sep. 2021
Economist I Santo Domingo, DR
- **Business Action for Education (EDUCA)** Jun. 2019 – Jan. 2020
Research and Development Specialist Santo Domingo, DR
- **Group for National Productivity and Competitiveness (GPCN)** Jun. 2019 – Jan. 2020
Technical Coordinator - Research Assistant Santo Domingo, DR
- **Valumonics** April 2019 – May 2020
Associate Santo Domingo, DR
- **Valumonics** Sep. 2017 – March 2019
Financial Analyst Santo Domingo, DR

PUBLICATIONS

WP=WORKING PAPER, PP=PREPRINT, T=THESIS

- [T.2] B. Guerrero (2023). **A Predictor-Corrector Interior Point Algorithm for the Optimization of the Government Budget Revenue**. Department of Basic and Environmental Sciences, Santo Domingo Institute of Technology (INTEC).
- [PP.1] P. Acosta-Humánez, O. Bairan, J. Garcia, and B. Guerrero (2021). **Hamiltonian of the Black-Scholes-Merton equation**. Manuscript submitted for publication in *Revista Matemática: Teoría y Aplicaciones*. Universidad de Costa Rica.
- [WP.1] B. Guerrero and M. Aquino (2020). **Vulnerabilities of the Pension and Retirement Program of the Dominican Education System**. In *Working Papers EDUCA*, #34. EDUCA. Feb. 2020, Santo Domingo, DR.
- [T.1] B. Guerrero (2019). **Determinants of Economic Growth in the Dominican Republic: a DSGE approach**. Department of Economics and Business, Santo Domingo Institute of Technology (INTEC).

ACADEMIC EXPERIENCE

- **Santo Domingo Institute of Technology (INTEC)** 2017 - 2021
Teaching Assistant Santo Domingo, DR
 - Courses: Microeconomics I (ECO303), Macroeconomics II (ECO306), Financial Economics (ECO327), Economic Development (ECO314), Econometrics I (ECO336) and Econometrics II (ECO337)
- **Santo Domingo Institute of Technology (INTEC)** 2017 - 2019
Substitute Professor Santo Domingo, DR
 - Courses: Econometrics I, Econometrics II, International Economics I, Econometrics (MSc)
- **Santo Domingo Institute of Technology (INTEC)** 2019
Research Thesis Advisor Santo Domingo, DR
 - N. M. Tejada (2019). "Economic Growth and Poverty Reduction in the Dominican Republic"

RESEARCH EXPERIENCE

- **Dominican Observatory of Public Policies, UASD** October 2021 - May 2022
Research Assistant
◦ Sustainability of Dominican Pension System Santo Domingo, DR
- **International Monetary Fund (IMF) and Harvard's Growth Lab** May 2022 - June 2022
Research Assistant Remote
◦ Assisted Gon Huertas on estimating coefficients from the Taylor Rules of LATAM panel
- **General Comptroller of the Dominican Republic** February 2022 - April 2022
Methodological Consultant Santo Domingo, DR
◦ Developed a new methodology to get the present value of past contracts for an economic balance exercise.
- **National Treasury of the Dominican Republic** August 2021 - January 2022
Technical Consultant Santo Domingo, DR
◦ Developed an econometric model for the forecast of tax revenues for a cash programming project guided by Mr. José Adrian Vargas Barrantes (former National Treasurer and Vice Minister of Finance of Costa Rica)
- **Business Action for Education (EDUCA)** June 2019 - January 2020
Research Assistant Santo Domingo, DR
◦ Evaluation of the quality, efficiency, and equity of public expenditure on education in the Dominican Republic
- **Business Action for Education (EDUCA)** June 2019 - January 2020
Research Assistant Santo Domingo, DR
◦ Sustainability of the Special Pension and Retirement Program for Teachers in the Dominican Republic
- **Group for National Productivity and Competitiveness (GPCN)** 2020
Research Assistant Santo Domingo, DR
◦ Unique RA of the book "[Gazebo](#)" by Dr. Xavier Sala-i-Martin and Dr. Peter Prazmowski.

LANGUAGES

Spanish: Native
English: Advanced
French: Basic

SKILLS

- **Data Analysis:** R, Stata, Excel, VBA, Matlab, PowerBI, Octave, Eviews
- **Web Technologies:** HTML, JavaScript
- **Database Systems:** SQL
- **Document Preparation:** \LaTeX , Markdown, Jupyter
- **Data Science & Machine Learning:** Python, Matplotlib, TensorFlow, Scikit-learn
- **Mathematical Tools:** Mathematica, Matlab, Octave

CERTIFICATIONS

- **Financial Mathematics and Stochastic Calculus** 2021
Center for Latin American Monetary Studies (CEMLA)
- **National Accounts Statistics** 2021
Regional Center for Technical Assistance for Central America, Panama and DR (CAPTAC-DR) of the IMF
- **Big Data, Data Mining and Machine Learning** 2021
Center for Latin American Monetary Studies (CEMLA)
- **Diplomas in Data Science and Intermediate Programming** 2020
Technological Institute of the Americas (ITLA)
- **Macroeconometric Forecasting** 2020
International Monetary Fund (IMF)
- **Macroeconomic Accounts and Analysis** 2020
International Monetary Fund (IMF)
- **Diploma in Applied Econometrics with R** 2019
Technological Institute of the Americas (ITLA)
- **Advanced and Intermediate English Courses** 2017 – 2019
Dominican American Cultural Institute
- **Diploma in Applied Econometrics with Stata** 2017
Foundation for the Advancement of Mathematics (FAMA)
- **Microeconomics** 2019
MIT (edX)
- **Corporate Finance** 2019
Columbia University (edX)
- **Intermediate and Advanced R Courses** 2019
DataCamp

WORKSHOPS

- **Structural Changes and Their Implications for Macroeconomic Risks, Dynamics and Policies** October 2023
Paris School of Economics (PSE)
- **Globalization, Shipping and Trade** October 2023
Paris School of Economics (PSE)
- **Central Bank Macroeconomic Modeling** November 2022
Central Bank of Colombia
- **Machine Learning and Causal Inference** November 2022
Prof. Brigham Frandsen, Brigham Young University. Mixtape Sessions by Scott Cunningham
- **Instrumental Variables** October 2022
Prof. Peter Hull, Brown University. Mixtape Sessions by Scott Cunningham

HONORS AND AWARDS

- **Scholarship for Master Studies in Economics** 2023
Elected by Authorities of the Central Bank of the Dominican Republic
- **Jury, NASA International Space Apps Challenge** 2022
Dominican Republic Competition
- **Mentor, NASA International Space Apps Challenge** 2020
Dominican Republic Competition
- **Winner, NASA International Space Apps Challenge** 2019
Dominican Republic Competition
- **National Scholarship for Postgraduate Studies in Science** 2020
Ministry of Higher Education, Science and Technology of Dominican Republic
- **Highest GPA of 8,000 Scholarship Recipients Nationwide** 2020
Ministry of Higher Education, Science and Technology of Dominican Republic
- **Highest GPA, Applied Mathematics (MSc) Cohort** 2023
Santo Domingo Institute of Technology (INTEC)
- **Highest GPA, Economics (BSc) Cohort** 2019
Santo Domingo Institute of Technology (INTEC)

VOLUNTEER EXPERIENCE

- **Coordinator, First Diploma in Real Analysis for Economists in the Dominican Republic** November 2022
Laboratory of Applied Mathematics, Santo Domingo Institute of Technology (INTEC)
- **Member, PNC Dominican Republic ReLaCa Space** October 2021 - Present
Latin American and Caribbean Space Network
- **Active Member, Rotaract INTEC University** July 2022 - Present
Santo Domingo Institute of Technology (INTEC) Community Service
- **Member, Volunteer Program** February 2020 - Present
Central Bank of the Dominican Republic
- **Director of Professional Development, Rotaract INTEC University** July 2021 - June 2022
Santo Domingo Institute of Technology (INTEC) Community Service
- **Tutor on Topics of Differential Equations, Microeconomics, and Macroeconomics** August 2021 - December 2021
Scholarship Holders of Central Bank of the Dominican Republic

REFERENCES

- **Dr. Pavel Isa Contreras** *pavel.isa.contreras@gmail.com*
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Minister, Ministry of Economy of Dom. Rep. (MEPYD)
- **Dr. Peter Prazmowski** *paprazmowski@gmail.com*
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Executive Director, National Competitiveness Council (CNC)
- **Dr. Jaime Aristy Escuder** *jaimearisty@gmail.com*
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Research Professor, INTEC/PUCMM
- **Dr. Rolando Guzmán** *rolando.guzman@intec.edu.do*
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Research Professor, INTEC
- **Prof. Apolinar Veloz** *apolinar.veloz@gmail.com*
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Researcher, Dominican Observatory of Public Policies (ODPP), UASD