Carlos Melara
Quantitative specialist

October, 2025

📍 Bo. San Esteban, Panchimalco

📞 +503 6006 9088 / 7665 7429

✉ carlosmelarapr@gmail.com

🔾 /camelara

in www.linkedin.com/in/carlos-alberto-melara-cañas-a13523183

About me ─────

Economist, research, Data Analyst, Data Science student

Skills: - R, Python, Eviews, STATA, VBA, WordPress, MS Office, Power BI, Looker Studio, Google Colab - Big Query, GitHub, Shiny Apps, Cloud SQL Studio, Google Earth Engine, webscraping - Econometric models and forecast - Machine Learning Models - Languages: Spanish (native), English (medium)

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Some stuf about me

- I have articles published in indexed journals, newspapers and in the COL-PROCE journals.
- Winner of fifth place among 174 investigations of the Call For Papers SIECA 2020 regional contest (Analysis of the use of trade agreements)
- I have been invited to give numerous presentations and webinars on economics, commerce and the economic situation at universities, government institutions and companies.
- I have knowledge of scientific research protocol, statistics, mathematics, econometrics, programming and BigData
- Passionate about science, self-taught.

Education

2025+	Master in Statistics and Data Science University of El Salvador	El Salvador
2018	Bachelor in Economics University of El Salvador	El Salvador
2010	Systems engineering (incomplete) University of El Salvador	El Salvador

Work experience

Quantitative Specialist

Institution: Ministry of Economy
2023 - Present

- Big Data, webscraping, websites administration, research economic.
- Creation of economic intelligence tools.
- Econometric models for economic analysis and forecast.
- Evaluation analysis of new trade agreements between El Salvador and potential partners.
- Continuous analysis of trade trends and particularities.

Economic Analyst

Institution: Ministry of Economy
2018 - 2022

- Research and economic situation analysis.
- Creation of economic intelligence tools and reports to improve decision making.
- Data and text mining

Academic experience

Evaluating court, for degree in economics.

Institution: University of El Salvador

Evaluated degree works:

- 2025: "Valoración económica del servicio ambiental de los bosques cafetaleros en El Salvador, período 2000-2021" *(in progress)*.
- 2023: "Análisis socioeconómico de los salarios mínimos en El Salvador en el periodo 2007-2020: propuesta metodológica para su establecimiento y conversión en instrumento de política pública en una economía dolarizada".
- 2022: "El Fondo para el Desarrollo Económico y Social de los Municipios, su efecto en la condición de pobreza en la Economía Salvadoreña, periodo 2010 a 2019".
- 2021: "Las Condiciones Macroeconómicas y Geopolíticas de las Economías Emergentes de Latinoamérica y su Rol en la Estimación del Riesgo, Periodo 2001-2018".

Consultant

- 2019 - Present: "Scientific research, data analysis, database management and Big Data".
- 2018: "Diagnóstico de las comunidades priorizadas en el distrito 3 del municipio de San Salvador".

Courses and diplomas

2024	Diploma in Technical Capacity Building Program for data management, automation and analysis in Business Analytics 2024 (Korea University, Korea). Data Analytics methodology, Big Data, IA.
2024	Diploma in Revenue Forecasting and Analysis (International Monetary Found). Quantitative methods to forecast and evaluate the revenue implications of changes in major taxes.
2023	Diploma in Technical Capacity Building Program for data management, automation and analysis in Business Analytics 2023 (Seoul, Korea). National accounts, Economic Policy, Economic history.
2022	Diploma in Economic Issues in Regional Integration (International Monetary Found). Regional Trade, Free Trade Agreement, Economic Integration.
2021	Diploma in Advanced statistical analysis using R (Universidad Centroaméricana Jose Simeon Cañas UCA, El Salvador). Dashboards, Data analysis, Text mining.
2021	Diploma in Data Production for the Labor Market Information System in El Salvador (San Salvador, El Salvador). Laboral market, Database.
2021	Diploma in Statistical analysis using R (Universidad Centroaméricana Jose Simeon Cañas UCA, El Salvador, El Salvador). Data analysis, Data visualization.
2020	Diploma in Demographics and Projections (United Nations Population Fund, UNFPA). Data analysis, Demographic statistics.
2019	Diploma in Regional Trade Policy Course (The World Trade Organization (WTO), The College of Mexico, Mexico DF). Trade regulations, Goods and services trade analysis, Trade policy analysis
2019	Diploma in The WTO and the Economics of Trade - Theory and Practice (The World Trade Organization (WTO)- online). Topics of the multilateral trade system and the WTO
2019	Diploma in Good practices and methodologies implemented in the exercise of Commercial and Productive Intelligence (PROECUADOR, Ecuador). Datawharehouse, Data analysis, Business Intelligence.
2018	Diploma in Prospective (Ministry of Economy, El Salvador). Strategy, methodologies, theoretical bases and instruments.
2016	Diploma in Academic writing for researchers (El Salvador). Syntax and text structure.

Indexed publications

1. Melara, C. A. (2022). Centroamérica y el acuerdo de asociación con la unión europea, una mirada al aprovechamiento del acuerdo en el comercio de bienes. In *Revista De Fomento Social* (Vol. 301, pp. 515–530). https://revistas.uloyola.es/rfs/article/view/5167

2. Melara, C. A. (2018). Salarios mínimos y empleo en el salvador. Aspectos a tomar en cuenta en la formulación de políticas públicas. In *Revista La Universidad* (Vol. 37, pp. 43–52). https://revistas.ues.edu.sv/index.php/launiversidad/article/view/1585/2050

3. Melara, C. A. (2019). Los determinantes del sector informal salvadoreño en el periodo 1996-2014. Elementos integrales de una política de empleo. In *Revista La Universidad* (Vol. 40, pp. 51–85). https://revistas.ues.edu.sv/index.php/launiversidad/article/view/1585/2050

Job reference

- Laura Pacheco
  Director, Ministry of Economy
  Phone: 7070 6022

- Victor Bonilla
  Economyc Analyst, Ministry of Economy
  Phone: 7797 3089

- Ademir Pérez
  University professor, University of El Salvador
  Phone: 7787 1681

- Héctor Méndez
  University professor, Francisco Gavidia University
  Phone: 7564 4856

Designed tools

Website

Author/administator of the Sistema de Inteligencia Comercial MINEC-El Salvador

Dashboards (Power BI)

- Dashboard 1
- Dashboard 2
- Dashboard 3

Dashboards R

- Shiny App- Investment map
- Flexdashboards- Market labor Analysis

Other tools (request access)

Analysis and dashboard using GCP

-Dashboard GOES Poject

Machine Learning- MINEC (ALDEA Project)

-Family income estimation models for the Salvadoran population, and poverty classification

Inflation analysis - MINEC

-Monthly price forecast models. National, regional and world analytics

VBA System

-System for collecting and printing payment tickets

Some reports and presentations

-Economic intelligence, business intelligence, presentations

Others

Technical collaboration in scientific research

Research

Webinars (one of many)

Comercial Intelligence

Podcast

La Inflación en El Salvador

Webscraping aplications

- Labor market data
- Companies profiles
- Bilateral trade of goods

Satellite image analysis

- Built infraestructure analysis