



# Carlos Melara

## Quantitative specialist

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## About me

Economist, research, Data Analyst, Data Science student

Skills: - R, Python, SQL, VBA, MS Office, Power BI, Google Colab - Econometric models and forecast (ARIMA, VAR, MCO, VEC, Probit, Logit, ANOVA y ANCOVA) - Machine Learning Models - Languages: Spanish (native), English (medium)

## Some stuff 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.
- I have been invited to give numerous presentations and webinars on economics, commerce and the economic situation at universities, government institutions and companies.
- Passionate about science, self-taught.

## Education

2024	Master in Statistics and Data Science San Salvador, El Salvador	University of El Salvador
2018	Bachelor in Economics San Salvador, El Salvador	University of El Salvador
2010	Systems engineering (incomplete) San Salvador, El Salvador	University of 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.

Economic Analyst

Institution: Ministry of Economy  
2018 - 2022

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

## Academic experience

Evaluator de Tesis de Grado

Institution: University of El Salvador  
Evaluating court, for degree in economics.

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 - Presente: "Investigación científica, análisis de datos, gestión de bases de datos y 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 Fund). 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 Fund). Regional Trade, Free Trade Agreement, Economic Integration.
2021	Diploma in Advanced statistical analysis using R (Universidad Centroamericana 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 Centroamericana 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 College of Mexico, Mexico DF). World Trade Organization, Trade analysis, Trade policy analysis.
2019	Diploma in Good practices and methodologies implemented in the exercise of Commercial and Productive Intelligence (PROE-CUADOR, Ecuador). Datawarehouse, 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.ulozola.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  
Celular: 7070 6022
- Mauricio Estevez  
Economic Analyst, Ministry of Economy  
Celular: 7797 3089

## Professional reference

- Ademir Péres  
University professor, University of El Salvador  
Celular: 7787 1681
- Héctor Méndez  
Economic Analyst, Central Bank of El Salvador  
Celular: 7564 4856

## Others

Webinars

Comercial Intelligence

Podcast

La Inflación en El Salvador

Website

Sistema de Inteligencia Comercial MINEC-El Salvador

Dashboards

- Dashboard 1
- Dashboard 2
- Dashboard 3

Technical collaboration in scientific research

Research

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