



Carlos Melara

Quantitative specialist

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/camelara

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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

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|------|--|-------------|
| 2024 | Master in Statistics and Data Science (in progress) 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.

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

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 - 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

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|------|--|
| 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 (one of many)

Comercial Intelligence

Podcast

La Inflación en El Salvador

Website

Sistema de Inteligencia Comercial MINEC-El Salvador

Dashboards (one of many)

- Dashboard 1
- Dashboard 2
- Dashboard 3

Technical collaboration in scientific research

Research
