

Carlos Ariel Espinosa Valdéz

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[in Profile](#)

[Portfolio](#)

SUMMARY

Motivated mathematician adept at leveraging data for informed decision-making. With a solid foundation in statistics, data analysis, problem-solving, and self-learning. Skilled in various data analysis and visualization tools including Python, R, SQL, Power Bi, and Tableau. Currently, I am seeking a position as a junior data analyst to apply my mathematical expertise, enhance my critical thinking skills, and contribute to the growth of the organization and its assets.

EDUCATION

MASTER OF SCIENCE IN MATHEMATICS

CENTER FOR RESEARCH IN MATHEMATICS (CIMAT)

Guanajuato, Mx.

August 2017 - July 2019

BACHELOR OF SCIENCE IN MATHEMATICS (Summa Cum Laude)

UNIVERSITY OF GUADALAJARA

Jalisco, Mx.

August 2012 - April 2017

CERTIFICATIONS AND TRAINING

Completed

- Power BI Course: Data Analytics and Business Intelligence ([View Certification](#))
- The Data Science Course: Complete Data Science Bootcamp 2024 ([View Certification](#))
- Google Data Analytics Certificate ([View Certification](#))

In Progress

- Python Essentials 1 ([Syllabus](#))
- Data Analytics Essentials ([Syllabus](#))

WORK EXPERIENCE

RESEARCH ASSISTANT

CIMAT

Guanajuato, Mx.

March 2024 - Present

- Performing research with applications related to coding theory.
- Main goal: Publish the results in a prominent mathematics journal.

DATA ANALYST

XVII INDUSTRIAL PROBLEM SOLVING WORKSHOP (CIMAT)

Guanajuato, Mx.

January 2024

- Received an assignment from Harinera de Irapuato S.A. de C.V.
- Defined objectives.
- Established key indicators.
- Conducted exhaustive research on several topics.
- Applied ETL techniques to both public and private databases.
- Performed appropriate analysis using time series and neural networks.
- Presented findings and recommendations to the company.
- Improved the company's operational efficiency.

TEACHER ASSISTANT

CIMAT

Guanajuato, Mx.

August 2020 - November 2023

- Facilitated the understanding of complex concepts.
- Fostered an engaging learning environment for students with diverse backgrounds.
- Performed and graded homework and tests.
- Prepared weekly reports on student performance.

RESEARCH ASSISTANT

UNIVERSITY OF GUADALAJARA

Jalisco, Mx.

June 2015 - August 2016

- Received a code originally developed by a researcher during her PhD.

- Converted the code written in C++ to Python.
- Identified improvements to the program.
- Created appropriate visualizations in MATLAB.
- Used partial differential equations to detect substances in the subsurface using waves.

RELEVANT SKILLS

Technical Skills

- Programming Languages: Proficient in Python, R, and MATLAB for data analysis and modeling.
- Statistical Analysis: Skilled in applying statistical techniques such as regression analysis, and hypothesis testing, and Bayesian inference.
- Data Visualization: Experienced in creating insightful visualizations using tools like Matplotlib, Seaborn, ggplot2, and Power BI to communicate complex findings.
- Database Management: Familiar with SQL for querying databases and extracting relevant datasets for analysis.
- Machine Learning: Understanding of machine learning algorithms and techniques for classification, regression, and clustering.

Analytical Skills

- Quantitative Analysis: Strong mathematical background with expertise in calculus, linear algebra, and probability theory.
- Problem-Solving: Ability to tackle complex problems, break them down into manageable tasks, and develop effective solutions.
- Critical Thinking: Adept at evaluating data, identifying patterns, and drawing meaningful insights to inform decision-making.
- Attention to Detail: Meticulous in reviewing and validating data to ensure accuracy and reliability in analysis.