

César Gamboa Sanabria

DATA SCIENTIST | COLLEGE PROFESSOR

San José, Costa Rica

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Data Science, forecasts, programming, R, Python

Experience

DATA SCIENTIST II - BAC CREDOMATIC, 2022-PRESENT DAY

- Identifying patterns and validating hypotheses, process improvement, creating second and third-generation variables to add value to the organization through machine learning algorithms and data science in general.

COLLEGE PROFESSOR, 2018-2023

- Computational Statistics II - University of Costa Rica.
- Machine Learning Principles for Classification Problems with R - University of Costa Rica.
- Statistical Programming with R - University of Costa Rica.
- Introductory Statistics I - University of Costa Rica.
- Introductory Statistics II - University of Costa Rica.
- General Statistics II - University of Costa Rica.
- Probability and Statistics - International University of the Americas.

RESEARCH ASSOCIATE - CIEP, 2021-2022

- Electoral participation and abstention in Costa Rica - Analyzed survey data on public opinion.

DEMOGRAPHER - NATIONAL INSTITUTE OF STATISTICS AND CENSUS, 2018-2022

- Researched and developed methodologies for population estimates and projections.
- Increased production through information distribution algorithms.
- Migration of processes in SPSS to the R language.

CUSTOMER SATISFACTION ANALYST - SUPREME COURT OF JUSTICE OF COSTA RICA, 2016

- Quality Service Perception Survey Design
- Interviewer training

TEACHING AND RESEARCH ASSISTANT - UNIVERSITY OF COSTA RICA, 2013-2016

- INISA: Nutrition and Parasitic Situation on Costarrican Children (2016-2017)
- Public Politics and immigration interrelationships (2015)
- Statistics for Social Sciences (2014 – 2016)
- Introduction to Statistics (2014 – 2016)
- Probability and Statistical Inference (2013 – 2014)

Education

DataCamp (See certificate)

DATA ANALYST IN TABLEAU

San José, Costa Rica

2024

University of Costa Rica

M.Sc. IN STATISTICS

San José, Costa Rica

2023

DataCamp (See certificate)

DATA ANALYST IN SQL

San José, Costa Rica

2022

CELADE-CEPAL (See certificate)

SPECIALIZATION IN DEMOGRAPHIC ANALYSIS FOR SUSTAINABLE DEVELOPMENT

Santiago, Chile

2020

Jonhs Hopkins University (See certificate)

DATA SCIENCE SPECIALIZATION

San José, Costa Rica

2017

Skills

- Descriptive analysis: statistical plots and tables
- Survey design: design and tabulation.
- ETL: extract, transform and load.
- Forecasts: time series analysis, regression models and classification.
- Multivariate data analysis: dimension reduction and clustering.
- Structural Equation Models.
- Basic knowledge of NLP.
- Version control: Git and [Github](#).

LANGUAGES:

- English (B2 according to The Common European Framework of Reference for Languages, certified by UNED, Costa Rica).
- Spanish (native).

Software

R

- César Gamboa-Sanabria. *popstudy: Applied Techniques to Demographic and Time Series Analysis*. (Version 1.0.0). <https://CRAN.R-project.org/package=popstudy> (+600 downloads)
- César Gamboa-Sanabria, Stefani Matarrita-Muñoz, Katherine Barquero-Mejías, Greibin Villegas-Barahona, Mercedes Sánchez-Barba & María Purificación Galindo-Villardón (2020). *dCUR: Dimension Reduction with Dynamic CUR*. (Version 1.0.0). <https://CRAN.R-project.org/package=dCUR> (+7000 downloads)
- [Shiny apps](#).

Python

- [Functions creation](#), [methods and libraries](#), [NumPy](#), [Pandas](#), [graphs and maps](#).

Microsoft Office | [SPSS and PSPP](#) | [CSPRO](#) | [SQL](#)