

# 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

MASTERS 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

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- 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

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### 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](#)