

# César Gamboa Sanabria

STATISTICAL DATA ANALYSIS CONSULTANT

San José, Costa Rica

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Data Science, forecasts, programming, R

## Summary

Statistical analysis, software and programming languages such as R, Python and Git. Versatility for process automatization through specialized algorithms, analytics and mathematical skills.

## Education

### CELADE-CEPAL

SPECIALIZATION IN DEMOGRAPHIC ANALYSIS FOR SUSTAINABLE DEVELOPMENT

Santiago, Chile

2020

### University of Costa Rica

MASTERS IN STATISTICS

San José, Costa Rica

2018-present day

### Jonhs Hopkins University (through Coursera 2017)

DATA SCIENCE SPECIALIZATION

San José, Costa Rica

2017

### University of Costa Rica

B.S. IN STATISTICS

San José, Costa Rica

2017

## Skills

- R Programming.
- Descriptive analysis: Statistical plots and tables
- Survey design: Design and tabulation.
- Data bases: Development and debugging.
- Forecasts: Time series analysis, regression models and classification.
- Multivariate data analysis: Dimension reduction and clustering.
- Data Mining: Sentiment analysis and text mining.
- Structural Equation Models.

### 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>
- 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>

Python | SPSS | Microsoft Excel

## Experience

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### RESEARCH ASSOCIATE - CIEP, 2021-PRESENT DAY

- Electoral participation and abstention in Costa Rica.

### DEMOGRAPHER - NATIONAL INSTITUTE OF STATISTICS AND CENSUS, 2018-PRESENT DAY

- Population projections
- Automation of processes and debugging of databases
- Migration of processes in SPSS to the R language

### COLLEGE PROFESSOR, 2018-PRESENT DAY

- R Programming - 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.

### 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)