# César Gamboa Sanabria

STATISTICAL DATA ANALYSIS CONSULTANT

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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

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| **CELADE-CEPAL** | *Santiago, Chile* |
| SPECIALIZATION IN DEMOGRAPHIC ANALYSIS FOR SUSTAINABLE DEVELOPMENT | *2020* |
| **University of Costa Rica** | *San José, Costa Rica* |
| MASTERS IN STATISTICS | *2018-present day* |
| **Jonhs Hopkins University (through Coursera 2017)** | *San José, Costa Rica* |
| DATA SCIENCE SPECIALIZATION | *2017* |
| **University of Costa Rica** | *San José, Costa Rica* |
| B.S. IN STATISTICS | *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, Stefani Matarrita-Muñoz, Katherine Barquero-Mejías, Greibin Villegas-Barahona, Mercedes Sánchez-Barba & María Purificación Galindo-Villardon (2020). *dCUR: Dimension Reduction with Dynamic CUR*. (Version 1.0.0). `https://CRAN.R-project.org/package=dCUR`

**Python** | **SPSS** | **Microsoft Excel**

# Experience

### 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)