César Gamboa Sanabria

STATISTICAL DATA ANALYSIS CONSULTANT

San José, Costa Rica

✉ info@cesargamboasanabria.com | 🏠 www.cesargamboasanabria.com | cgamboasanabria | cgamboasanabria

Data Science, forecasts, programming, R, Python

Experience

RESEARCH ASSOCIATE - CIEP, 2021-PRESENT DAY

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

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

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

COLLEGE PROFESSOR, 2018-PRESENT DAY

- 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 Rica.
- Introductory Statistics I - University of Costa Rica Rica.
- Introductory Statistics II - University of Costa Rica Rica.
- General Statistics II - University of Costa Rica 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)

Education

University of Costa Rica	*San José, Costa Rica*
MASTERS IN STATISTICS	*2018-present day*
CELADE-CEPAL (See certificate)	*Santiago, Chile*
SPECIALIZATION IN DEMOGRAPHIC ANALYSIS FOR SUSTAINABLE DEVELOPMENT	*2020*
Jonhs Hopkins University (See certificate)	*San José, Costa Rica*
DATA SCIENCE SPECIALIZATION	*2017*
University of Costa Rica (See certificate)	*San José, Costa Rica*
B.S. IN STATISTICS	*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-Villardon (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**