

# Victor Manuel Sarmiento Garcia

ECONOMIST · RESEARCH ASSISTANT

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## Summary

Economist and final year student of the Master's Degree in Economics at Universidad Icesi in Cali, Colombia. I'm interested in working in areas related to applied econometrics, macroeconomics and data science tools. I have experience coding in python, R and stata; producing automated reports; explaining complicated things in a simple way; and applying the economics theory and methods to real world problems in an academic and consulting environment. With high skills in oral and written communication, achievement orientation, working under pressure, adaptation to change, interpersonal relationships, teamwork and leadership.

## Education

### Universidad Icesi

Cali, CO

Msc, Economics

2023 - Forthcoming

- Research Assistant at Cienfi - Universidad Icesi.
- Scholarship tuition fees.
- Scholarship: Studienreisen für Gruppen von ausländischen Studierenden in Deutschland. DAAD Deutscher Akademischer Austauschdienst. Germany.

### Universidad Icesi

Cali, CO

Bsc, Economics and International Business

2018 - 2022

- Honours degree: Magna Cum Laude
- Research assistant at POLIS - Universidad Icesi, and Teaching assistant in courses like: Macroeconomics I, Econometrics I and International Economics
- Icesi - Hong Kong short-term virtual exchange program: Economic and Political Developments in China and Colombia
- Honor Scholarship winner
- Nine consecutive semesters on the honor roll
- Undergraduate Scholarship: Ser Pilo Paga 4.0

### Institución Educativa Liceo Departamental

Cali, CO

High School

2013 - 2017

- Honours degree
- Member of a very high standard group: Talented math students

## Work Experience

### Cienfi - Centro de Investigación en Economía y Finanzas, Universidad Icesi

Cali, CO

Research assistant

Feb 2023 - Present

- Program, coordinate and execute Business analytics solutions for companies seeking to answer business questions.
- Investigate different forms of application of knowledge and/or information needs to deepen, expand and complement the development of research projects.
- Prepare research papers, reports and presentations; organize databases; perform econometric and statistical analysis; prepare literature reviews; make presentations to different audiences; edit books; etc
- Prepare learning resources to teach people how to use R
- **Technical skills:** R, Python, Git, PowerBI, VBA, Suite Office.
- **Soft skills:** Teamwork, Time management. Achievement orientation, Storytelling.

### POLIS - Observatorio de Políticas Publicas, Universidad Icesi

Cali, CO

Research assistant

Feb 2022 - Jan 2023

- I reduced by 50% the time in which a database that captures information about a population survey carried out in Cali was created and cleaned (this involves standardizing, automating and structuring in an effective and efficient way the processes of collection, entry, cleaning, data analysis and visualization).
- I designed a visualization system capable of showing this information in a simple, agile way and aimed at describing the Cali population.
- I centralized these processes in a new area within Polis: Analysis and Methods Management.
- **Technical skills:** R, Stata, Arcgis Pro, PowerBI, VBA, Suite Office.
- **Soft skills:** Teamwork, Time management, Storytelling.

## Teaching Experience

### R basics

Cali, CO

Teaching assistant for Icesi's Undergraduates and Pacifico Task Force students

2023-2024

## Publications

Determinantes de la aspiración al crecimiento del negocio de los emprendedores Colombianos: el rol de algunas generaciones, Baby Boomers, Generación X y Millenials

Carlos G. Gonzales, Victor M. Sarmiento, Jhonnie M. Arboleda

*Revista de Métodos Cuantitativos para la Economía y la Empresa* (2023). 2023

## Books chapters

Retorno de la ocupación a los niveles de la prepandemia

Julio C. Alonso, Victor M. Sarmiento

*Actualización del sistema de cuentas económicas distritales de Santiago de Cali: 2015-2022*, 2023, Cali, Colombia

## Selected Projects

### Exploring the use of time series topology tools for economic series applications

Cali, CO

Supervisor: Julio César Alonso

2024

- Master's Thesis.

### Técnicas de medición económica: metodología y aplicaciones en Colombia

Cali, CO

Eduardo Lora, Sergio Prada, Cienfi - Universidad Icesi

2024

- Coordination of platform design, construction of interactive tools, editing and diagramming the book.

### Actualización del sistema de cuentas económicas distritales de Santiago de Cali:

Cali, CO

2015-2022

Alcaldía de Santiago de Cali, Cienfi - Universidad Icesi

2023

- The Gross Domestic Product (GDP) was calculated for Santiago de Cali between 2015-2022
- The adjustment in income distribution after the pandemic was analyzed, the return of employment to pre-pandemic levels was explored, and the dynamics of the Cali economy in that period of time were described.

### Efecto Walabí: ¿Y si México jugara en la Conmebol?

Cali, CO

Universidad Icesi

2020

- Data on soccer matches between national teams from 1872 to 2022 were analyzed to measure their effectiveness in terms of a V/D ratio
- The performance of the teams that are part of CONMEBOL and CONCACAF was studied.
- The hypothetical case in which Mexico will play in CONMEBOL against the South American teams was analyzed.

## Presentations

2023

**Foro Diagnóstico Socioeconómico de Santiago de Cali 2023**, Actualización del sistema de cuentas económicas distritales "SCED: una mirada de largo plazo de la economía Distrital 2015-2022"

Cali, CO

## Skills

**Computer** Python, R, Stata, HTML/CSS, JavaScript, SQL.

**Other** Git,  $\LaTeX$ , Linux, Shell (Bash/Zsh), Tableau, Power BI, Suite Office, Firebase.

**Soft skills** Time management, Teamwork, Problem solving, Documentation, Storytelling.

## Languages

**English** Upper Intermediate

**Spanish** Native

**German** Elementary

**Mandarin** Elementary

## References

<b>Julio César Alonso</b>	Director. Cienfi - Universidad Icesi - jcalonso@icesi.edu.co
<b>Lina Maria Martínez</b>	Director. POLIS - Universidad Icesi - lmmartinez@icesi.edu.co
<b>Carlos Giovanni Gonzales</b>	Full profesor. Universidad Icesi - cggonzalez@icesi.edu.co