

Victor Manuel Sarmiento Garcia

ECONOMIST · RESEARCH ASSISTANT

✉ vmsarmiento@icesi.edu.co | 🏠 victors081.netlify.app/ | 🔗 linkedin.com/in/victors081

Summary

Economist and final year student of the Master's Degree in Economics at the Icesi University. I'm interested in working in areas related to applied econometrics, macroeconomics and Statistics. I have experience in the use of technologies that motivate the study of reality from economic theory and that allow processes to be automated while improvement proposals are made. With skills in oral and written communication, achievement orientation, working under pressure, interpersonal relationships, teamwork and leadership.

Education

Universidad Icesi

Msc, Economics

Cali, CO

2023 - Forthcoming

- **Courses:** Quantitative and Computational Methods, Microeconomics and Market Dynamics, Advanced Macroeconomics, Game Theory and Asymmetric Information, Advanced Microeconomics, Advanced Econometrics I, Advanced Econometrics II, Behavioral economics, Time series, and Analytics models for classification, clustering, anomaly detection, and basket analysis

Universidad Icesi

Bsc, Economics and International Business

Cali, CO

2018 - 2022

- Honours degree: Magna Cum Laude
- Research assistant and Teaching assistant in courses like: Macroeconomics I, Econometrics I and International Economics

Institución Educativa Liceo Departamental

High School

Cali, CO

2013 - 2017

- Honours degree
- Talented Mathematics Student

Work Experience

Cienfi - Centro de Investigación en Economía y Finanzas

Research assistant

Cali, CO

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

Research assistant

Cali, CO

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

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

Cali, CO

2023-2024

Macroeconomics I, Econometrics I, International Economics

Teaching assistant for Icesi's Undergraduates students

Cali, CO

2021-2022

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, Jhonnier M. Arboleda
Revista de Métodos Cuantitativos para la Economía y la Empresa (2023). 2023

Books

Empleando APIs en R: herramientas para el análisis económico
Julio C. Alonso, Victor M. Sarmiento
Editorial Icesi (Forthcoming). Forthcoming

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

Working Papers

Ajuste de la ocupación al nivel prepandemia en cinco ciudades de Colombia
Julio C. Alonso, Victor M. Sarmiento
Working paper (Forthcoming). Forthcoming

Comportamiento del índice de precios de servicios energéticos en algunas ciudades del Valle del Cauca, Colombia
Julio C. Alonso, Victor M. Sarmiento, Oscar A. Castaño
Working paper (Forthcoming). Forthcoming

Relación entre el gasto en transferencias de la Premier League y el rendimiento de los equipos
Julio C. Alonso, Juan C. Osorio, Victor M. Sarmiento
Working paper (Forthcoming). Forthcoming

¿Existe una relación de largo plazo entre el desarrollo financiero y el crecimiento económico en Colombia?
Julio C. Alonso, Victor M. Sarmiento
Working paper (s.f.). s.f.

Projects

Exploring the use of time series topology tools for economic series applications Cali, CO
Master's Thesis 2024

Actualización del sistema de cuentas económicas distritales de Santiago de Cali: 2015-2022 Cali, CO
Cienfi - Alcaldía de Santiago de Cali 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 R, Python, Stata, HTML/CSS, JavaScript, SQL.
Other Linux, Shell (Bash/Zsh), \LaTeX (Overleaf/R Markdown), Tableau, Microsoft Office, Firebase, Git.
Soft skills Time management, Teamwork, Problem solving, Documentation, Storytelling.

Languages

English	Upper Intermediate
Spanish	Native
German	Elementary
Mandarin	Elementary
Portuguese	Elementary

Achievements

2023	Scholarship Studienreisen für Gruppen von ausländischen Studierenden in Deutschland, DAAD	<i>Germany</i>
	Deutscher Akademischer Austauschdienst	
2023	Master's degree Scholarship, Universidad Icesi	<i>Colombia</i>
2022	Scholarship tuition fees, Universidad Icesi	<i>Colombia</i>
2022	Competitor, National Economics Academic Competition	<i>Colombia</i>
2021	Icesi - Hong Kong short-term virtual exchange program, Economic and Political Developments in China and Colombia	<i>Colombia</i>
2017	Undergraduate Scholarship, Ser Pilo Paga 4.0	<i>Colombia</i>

References

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