Andrés Pérez-Coronado

Data analytics leader | Data scientist | Machine learning

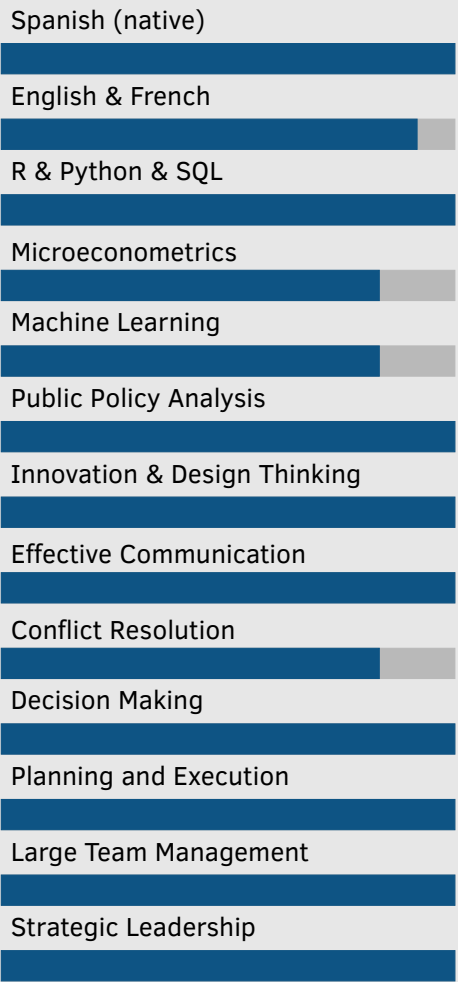☎ +57 (301) 787-5697

🌐 LinkedIn

@ andres.perez.c@outlook.com

About me ——————

Doctor (c) in Mathematical Engineering, Fulbright and Colfuturo scholar with 20 years of experience in data analysis, team leadership, and consulting in Colombia and abroad. Expert in spatiotemporal models, social network analysis, econometrics, and machine learning for data-driven decision-making using R, Python, and SQL. Skilled in strategic impact assessment, prediction, and visualization, with a strong background in design thinking, Scrum, strategic foresight, and business intelligence.

Skills ——————

Spanish (native)

English & French

R & Python & SQL

Microeconometrics

Machine Learning

Public Policy Analysis

Innovation & Design Thinking

Effective Communication

Conflict Resolution

Decision Making

Planning and Execution

Large Team Management

Strategic Leadership

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Professional Experience

Currently	**Head of the Analytics Center for Policing** National Police of Colombia
2023-2024	Liaison Officer Management of investment project financing and advisory for high-level decisions **Ministry of the Interior**
2022-2023	Professor of Organizational Management/Planning and Public Management **University of Rosario**
2022-2023	Head of Institutional Measurement and Evaluation Design of the national-level indicator evaluation model **Planning Office - National Police of Colombia**
2023	Professor of Data Science and Analytics - Master's in Journalism and Digital Communication **University of La Sabana**
2022	Designer of the Virtual Course: Design and Visualization of Information for Decision Making **University of Ibagué**
2022	Chief of Citizen Security Operations Coordinated large-scale security operations, significantly improving public safety indicators. **Metropolitan Police of Ibagué**
2022	Lead Researcher in Data Analysis and Visualization Marathon **Edgelands Institute**
2021-2022	Head of the Analytics Center for Policing **National Police of Colombia**
2017-2022	WebApp Designer and Data Analyst **Convicubo.co Diagnostics of Coexistence and Citizen Security**
2020	Data Scientist 'Hands on Data' **Development Bank of Latin America (CAF) - Caoba Alliance**
2018-2019	Chief of Citizen Security Operations **Department of Guainía Police**
2016-2018	Deputy Director of the Anti-Drug School / ERCAIAD Managed anti-drug training programs, strengthening institutional capacities in multiple countries. **OAS - National Police of Colombia - US Embassy-INL**
2016-2018	Instructor in Anti-Drug Intelligence and Strategic Foresight Courses **Argentina, Colombia, Ghana, El Salvador, Paraguay, and Trinidad and Tobago**
2015-2016	Head of the Research Area **Police Postgraduate School 'Miguel Antonio Lleras Pizarro'**
2014-2015	Responsible for the Center for Hemispheric Security Prospective **Community of American Police - Ameripol**
2014	International Professional Exchange **United Nations Development Program (UNDP), New York** **Hennepin County Sheriff's Office, Minnesota, USA**
2011-2013	Information and Monitoring Coordinator **Planning Office - National Police of Colombia**

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Education / Training

Currently	Ph,D. in Mathematical Engineering (c) EAFIT University	Medellín-Colombia
2010	Master's in Administration and Organizations Université de Grenoble Alpes	Grenoble-France
2021	Specialist in Security Police Postgraduate School	Bogotá DC-Colombia
2014	Specialist in Applied Mathematics Sergio Arboleda University	Bogotá DC-Colombia
2007	Specialist in Public Finance Management Caribbean University Corporation	Sincelejo-Sucre
2012	Business Administrator EAN University	Bogotá DC-Colombia
2003	Police Administrator General Francisco de Paula Santander Police Cadet School	Bogotá DC-Colombia
2019	Summer School: Economics of Crime, Drugs, and Other Risks University of the Andes - Bogotá DC	
2016	Course in Intelligence, Surveillance, and Reconnaissance (ISR) Lackland-Texas US Air Force Inter-American Air Forces Academy (IAAFA)	
2014	Fulbright Mid-Career Hubert H. Humphrey Fellowship in Public Policy and Public Administration US Department of State-Fulbright-University of Minnesota	Minneapolis

Publications

Currently	Columnist at La Silla Vacía https://www.lasillavacia.com Expert opinion columnist.
2024	Book chapter https://revistalogos.policia.edu.co:8443/omp/index.php/editorial/catalog/book/102/chapter/195 Methodology for Intermediate Measurement of the Impact of the Prevention Efforts on Extortion and Human Development, in book: Data Analytics for Citizen Security (pp. 39-85).
2024	Book chapter https://revistalogos.policia.edu.co:8443/omp/index.php/editorial/catalog/book/102/chapter/196 Detection of Atypical Data (Outliers) for the Reduction of the Homicide Rate in Colombia, in book: Data Analytics for Citizen Security (pp. 87-111).
2024	Book chapter https://revistalogos.policia.edu.co:8443/omp/index.php/editorial/catalog/book/102/chapter/197 Correlation of Homicide Modalities with Impactful Crimes in Atypical Quadrants of the National Police of Colombia, in book: Data Analytics for Citizen Security (pp. 113-140).
2024	Book chapter https://revistalogos.policia.edu.co:8443/omp/index.php/editorial/catalog/book/102/chapter/198 CONVICUBO: Methodology for Strengthening Coexistence and Citizen Security, in book: Data Analytics for Citizen Security (pp. 141-168).
2022	Scientific Article https://www.mdpi.com/2414-6366/8/1/30 Identification of Hazard and Socio-Demographic Patterns of Dengue Infections in a Colombian Subtropical Region from 2015 to 2020: Cox Regression Models and Statistical Analysis.
2021	Book Chapter https://scioteca.caf.com/handle/123456789/1776 Evolution of Citizen Security Indicators as a Consequence of Health Measures, in book: *Leveraging Data for Decision Making in the Public Sector.*

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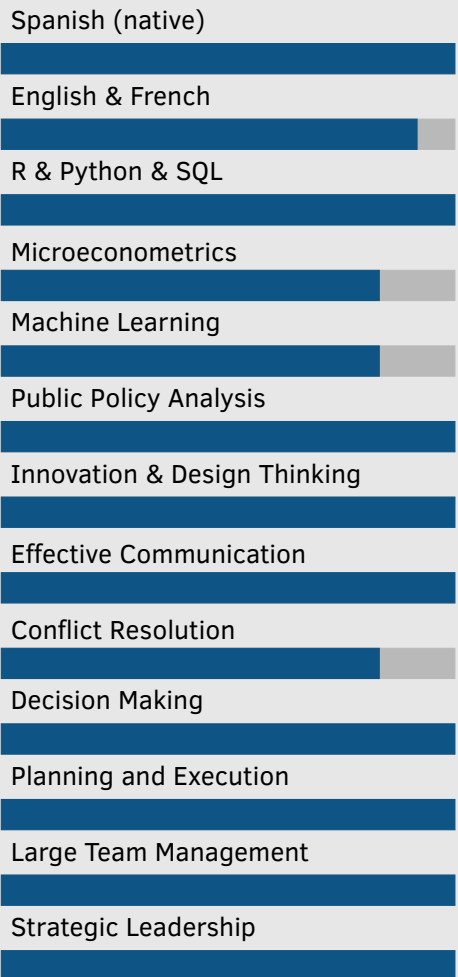
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2021	Conference Presentation
	Intermediate Impact Measurement Methodology for Extortion Prevention and Human Development. VI National Congress of Political Science: Democracies and Populisms Amid Global Crises.
2019	Scientific Poster
	Improvement of IDW Interpolation Using Mahalanobis Distance in Criminal Analysis. I Southwestern Meeting of Mathematics and Applied Mathematics.
2017	Book
	Police for Human Development (PDH). Methodology for Evaluating Citizen Security and Police Forces Using Fuzzy Mathematics. ISBN: 978-958-749-683-3
2016	Scientific Article `http://www.scielo.org.co/scielo.php?script=sci_arttext&pid=S1794-31082016000200010`
	Collective Intelligence: Short-Term Anticipation for Coexistence Problems. Criminality Magazine 58 (2): 223-240

Professional Achievements

- Conceptualization and Structuring of the project "Studies, designs and implementation of the project for territorial security and coexistence and development of the octagonal anticipation platform - PLÁTANO" for 210,930,000,000.00 COP - 53,625,175.03 USD (1 USD = 3,933.41 COP), financed by the National Fund for Security and Coexistence FONSECON.

- Designer and implementer of the evaluation of National Police commanders through the Police for Human Development (PDH) model, Resolution 1002 of 21/03/2023.

- Director of pilot tests and experimentation of software for the collection and analysis of georeferenced security perception and predictive indicators of intermediate impact in the city of Ibagué in 2022.

- Creator of the strategy for crime reduction 'Outlier Quadrants' with univariate and multivariate methods. Result: November and December 2021 had the lowest homicide rates in 19 years.

- Mentor at the Adaptive Social Innovation Laboratory (LISA). Presidential Council for Youth in alliance with USAID, ACDI/VOCA, Corona Foundation, and EAN University.

- Fulbright Scholarships Evaluator.

- Methodologist of the Strategic Renewal and Police Innovation Committee for the eradication of illicit crops (CREIP-ECI) in the Directorate of Anti-Narcotics of the National Police of Colombia.

- Responsible for the Strategic Review Analysis Table and Innovation Committee against the Illicit Drug System (CREI-CSDI) in the Vice Presidency of the Republic of Colombia.

- Responsible for the innovation team for the restructuring of the anti-narcotics strategy.

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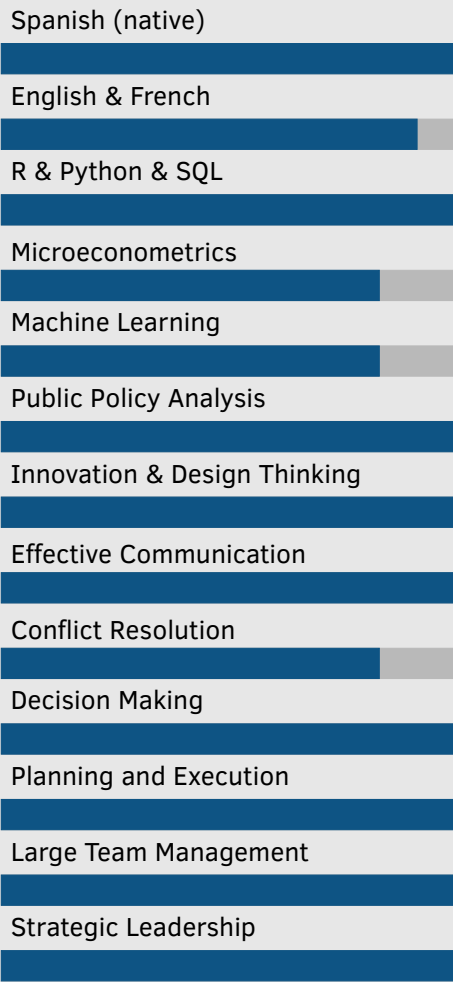Data analytics leader | Data scientist | Machine learning

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Interpersonal Skills

- Research and innovation spirit.
- Calculated risk-taking.
- Emphasis on teamwork.
- Leadership and decision-making under pressure.
- Collective solution building.
- Negotiation to achieve goals.
- Critical thinking.

Awards

Year	Award
2024	Distinguished Services Medal Special Class, Second Time, 05/11/2024, R 03826.
2023	Ministry of the Interior: Medal of Merit Luis Carlos Galán Sarmiento, First Time, 07/12/2023, RM 2127.
2023	Planning Office Medal "Colonel Mario Castillo Ruiz" First Time, 14/07/2023, R 2258.
2022	20 Years of Service Medal, 05/12/2022, R 0818.
2020	Honorary Mention, Sixth Time, 06/12/2020, R 01611.
2019	Honorary Mention Civil Order of Merit, Estrella Fluvial de Oriente, First Time, 18/07/2019, D 428.
2017	Honorary Mention, Fifth Time, 06/12/2017, R 00930.
2017	15 Years of Service Medal, 05/12/2017, R 0818.
2017	Distinguished Services Medal Special Class, First Time, 05/11/2017, R 05289.
2016	Presidential Citation of Military and Police Victory, Unique, 26/09/2016, R 06232.
2016	Francisco José de Caldas Doctoral Scholarship
2015	Winner of the Best Innovation Project of the Leadership for Bogotá Program.
2014	Order of the Community of American Police - AMERIPOL Special, 30/12/2014, NR 019.
2014	Honorary Mention, Fourth Time, 06/12/2014, R 05555.
2013	US Department of State-Fulbright Scholar for the Hubert H. Humphrey Program.
2011	Colfuturo Scholar for Postgraduate Studies Abroad.
2011	Honorary Mention, Third Time, 06/12/2011, R 01293.
2011	Civic Medal of Cartagena, Unique, 09/11/2011, D 1404.
2009	Badge of the Carabineros School "Rafael Nuñez", Unique, 15/04/2009, R 061.
2008	Honorary Mention, Second Time, 06/12/2008, R 01902.
2008	"Order of Marshal Sucre" Decoration Governor of the Department of Sucre, First Time, 04/11/2008, D 1333.
2007	"Honor to Merit" Decoration Mayor of Sincelejo, First Time, 07/11/2007, D 294.
2007	Police Professor Badge, First Time, 25/02/2007, R 00563.
2005	Honorary Mention, First Time, 06/12/2005, R 04911.
2004	Citizen Merit Mayor's Office Local Ciudad Bolívar, Special, 11/11/2004, R 214.
2003	Honorary Decree of the "Congress of the Republic", Special, 01/10/2003, R 2028.