Santiago Botero Castro

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PROFESSIONAL PROFILE

Forestry Engineer from the National University of Colombia, Medellín, with a strong focus on Geographic Information Systems (GIS). Knowledge and skills in the collection, analysis, and interpretation of geospatial data, applied to the sustainable management of natural resources and environmental conservation. Has developed expertise in the use of GIS tools and software, such as ArcGIS, QGIS, and other spatial analysis platforms. Focused on continuous learning and actively seeking new skills and knowledge in emerging technologies.

FORMAL EDUCATION

Forestry Engineering

National University of Colombia - Medellín Campus

High School Diploma (2017)

Institución Educativa Liceo Antioqueño - Bello, Colombia

SOFTWARE SKILLS	SKILLS (SOFT SKILLS)	LANGUAGES
• ArcGIS Platform	• Responsibility	• Native Spanish
• QGIS	• Kindness	• English B1
• PostgreSQL y PostGIS	• Dedication	
• SQL	• Teamwork	
• Python	• Adaptability	
• Office Tools		

WORK EXPERIENCE

Área Metropolitana del Valle de Aburrá (AMVA) - Medellín, Colombia
September 2025 –Present
Position: GIS Editor (Cadastral Management Unit)
Technical support to the Cadastral Management team on issues related to multipurpose cadastre and Geographic Information Systems (GIS). Support in the administration, structuring, and management of the entity's geospatial data.

Área Metropolitana del Valle de Aburrá (AMVA) - Medellín, Colombia
March 2025 – August 2025
Position: Professional Intern in Territorial Planning and GIS
Analysis of the Ecological Structure in Territorial Planning Schemes (POT), generating diagnoses and technical cartography to support regional planning. Development of data visualization tools (StoryMaps) and field data collection (Survey123) to improve project dissemination and supervision. Support in the review of planning instruments and in the modernization of the geospatial data infrastructure, proposing technical solutions with Python (ArcPy). Elaboration of technical concepts based on environmental regulations and ecosystem studies to respond to institutional requirements.

Freelance/Independent Work - Mérida, México
April 2024 – June 2025
Position: GIS Assistant (Remote)
Support tasks in Geographic Information Systems (GIS), such as downloading satellite imagery, preparing reports, and executing vegetation cover classifications. Geospatial data management, performing topology correction tasks in shapefiles, ensuring data quality.

National University of Colombia, Medellín
February 2024 – September 2024
Position: Spatial Remote Sensing Assistant/Monitor
Advising and accompanying students on topics of photogrammetry, vegetation cover, and programming applied to spatial remote sensing. Support in the use of GIS tools and satellite image analysis software, aiding in the classification of vegetation cover and the processing of geospatial data. Also participated in field trips, collaborating in data collection to complement the theoretical and practical analyses performed in the course.

National University of Colombia, Medellín
May 2023 – Present
Active member of the SAGEMA research group, a research group dedicated to the study and application of advanced techniques in Geographic Information Systems (GIS) and remote sensing.