



VALERIA GARCÍA MÚNERA

ENVIRONMENTAL ENGINEER

CONTACT

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KEY SKILLS

Microsoft Office



ArcGIS



Data Analysis



Python



R



Machine Learning



Deep Learning



LANGUAGES

Spanish



PROFILE

Experienced and dedicated Environmental Engineer with extensive knowledge and proven experience in data analysis, database management, Geographic Information Systems and programming languages such as Python, R and Matlab. Highly proficient at both independent and teamwork, with the outstanding ability to organize and plan the achievement of objectives in specific times. Excellent oral and written communication skills in Spanish, English and French.

PROFESSIONAL EXPERIENCE

August 2022 – Present

Graduate Research Assistant

IIHR Hydrosience & Engineering. Iowa Flood Center – Iowa City, Iowa. United States.

November 2020 – June 2022

Hydraulic Engineer

INTEGRAL S.A. – Medellín, Antioquia. Colombia.

- Monitoring and analysis of seepage flows in the Ituango Hydroelectric Project Dam.
- Support in the Hydrogeological Model development.
- Elaboration of reports for the fulfilment of Environmental Authority requirements.

November 2016 – December 2019

Environmental Engineer

Área Metropolitana del Valle de Aburrá – Medellín, Antioquia. Colombia.

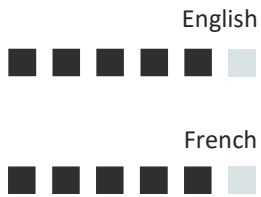
- Manage as an Environmental Engineer the technical attention of environmental permits, and requests from control entities and the community in general, in the exercise of urban Environmental Authority.
- Review and send the records of the databases, referring to the quality management system and monitoring results of the water resource.

September 2016 – February 2017

Environmental Engineer – Consultant

World Wildlife Fund, Inc. (WWF). – Medellín, Antioquia. Colombia.

- Collection of spatial national and local water-risk data to be integrated into the WRF tool as part of the new Higher Resolution Data Sets.
- Identify the most relevant and reliable local datasets that could be used based on the reliability of the sources.



December 2016 – April 2017

Academic Assistant

*Universidad de Antioquia & Universidad Nacional – Unión Temporal
Gestión del Riesgo Ambiental – UT-GRA – Medellín, Antioquia. Colombia.*

- Analysis and consolidation of scientific publications, master's and doctoral thesis and other information generated in the 9 projects of the Research Program.

Preparation and adjustment of a report type scientific article where the results of the research program are presented as a synthesis.

— **EDUCATION**

August 2022 – Present

MS Civil and Environmental Engineering – Water Resources

University of Iowa - Iowa City, Iowa. United States.

July 2017 – August 2018

Specialization in Hydraulic Resources

Universidad Nacional de Colombia – Medellín, Antioquia. Colombia.

January 2011 – June 2016

Environmental Engineer

Universidad de Antioquia – Medellín, Antioquia. Colombia.

— **COURSES**

Dec 2021 – February 2022

Applied Data Science with Python Specialization

University of Michigan (Coursera) – Medellín, Antioquia. Colombia.

May 2020 – August 2020

Python Data Structures

University of Michigan (Coursera) – Medellín, Antioquia. Colombia.

February 2020 – May 2020

Programming for Everybody (Getting Started with Python)

University of Michigan (Coursera) – Medellín, Antioquia. Colombia.

July 2019 – February 2020

Data Analysis and Machine Learning in Python

Universidad de Antioquia – Medellín, Antioquia. Colombia.