

Daniel González-Núñez

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EDUCATION

UNIVERSIDAD DE LOS ANDES
M.Sc. CIVIL ENGINEERING (FOCUS:
DATA SCIENCE & MACHINE
LEARNING IN URBAN SYSTEMS)
Dec 2025 | Bogotá, Co

UNIVERSIDAD NACIONAL
DE COLOMBIA
B.Sc. INDUSTRIAL ENGINEERING
Jun 2023 | Manizales, Co

COURSES

DATA SCIENCE

Data Science for All 3.0 (with honors and outstanding community citizenship)
Neural Networks and Deep Learning
Macrotraining in AI, UNAM
Data Science with Python
Spatial Statistics, UNAL
Discrete Choice Models, Perceptions and Attitudes for Demand Analysis

SKILLS

PROGRAMMING

Python • R • SQL • Jupyter • VBA • \LaTeX
Cloud
AWS • GCP
Dashboard

Power BI • Tableau • Shiny

SPATIAL ANALYSIS

ArcGIS • QGIS • GeoDa
Other

C# • HTML • CSS

CONGRESS

TALKS

WSTLUR24 (Bogotá), CLATPU24 (Santo Domingo), WCTR23 (Montreal), PANAM23 (Guayaquil), AAG23 (Denver), Scitel (Cúcuta), among others.

AWARDS

Tuition waiver for students with the highest academic average.
DS4A Colombia 5.0 Best TA.

PROFILE

Data Scientist with expertise in machine learning, spatial analytics, and urban data. Proven ability to deliver actionable AI solutions for city-scale projects. Skilled in Python, R, SQL, cloud platforms (AWS, GCP), and geospatial analysis. Experienced collaborator in cross-disciplinary and public-private teams.

PROJECT HIGHLIGHTS

- Bogotá Urban Livability Index (link): Developed a machine learning-driven index to measure and visualize the impact of urban projects using extensive spatial data.
- Data Science Project Mentorship: Guided 150+ students in delivering real-world data science solutions for public and private sector clients as a DS4A/Amazon teaching assistant.
- Road Safety ML Models: Designed machine learning models to categorize road safety risks, supporting targeted interventions.
- Transit Opportunity Index: Co-created an analytical tool in Python to evaluate public transit accessibility across Bogotá, enabling data-driven mobility planning.

EXPERIENCE

SUR GROUP, UNIANDES | RESEARCHER, DATA SCIENTIST & ML MODELER

Jan 2024 - Present | Bogotá, Co

- Developed advanced machine learning models for the SGR project, leveraging AI and citizen science for urban transformation.
- Created the Bogotá Urban Livability Index using spatial data science to assess urban project impacts.
- Co-developed the Bogotá Transit Opportunity Index, an ML-driven tool to optimize and evaluate city transit.
- Leading thesis on subjective well-being and urban livability using latent variable modeling (MIMIC-SEM) and machine learning.

CORRELATION ONE | TEACHING ASSISTANT PROFESSOR – DATA SCIENCE FOR ALL (DS4A), AMAZON DATA ANALYTICS, CONSULTANT

May 2021 - Oct 2023 | Remote, NY

- Mentored 2,500+ top-performing data science students in Colombia via the MinTIC scholarship.
- Directly coached 150+ students, evaluated assignments, and led the delivery of 20+ real-world data science projects for public and private organizations.
- Delivered additional lectures and academic support for courses in the U.S. and Canada.

SUSTAINABLE MOBILITY RESEARCH GROUP, UNAL | RESEARCHER, DATA SCIENTIST & SOFTWARE DEVELOPER

Jun 2019 - Apr 2024 | Manizales, Co

- Conducted machine learning research on road segment categorization and road safety, presented at WCTR23 and other international conferences.
- Supported the creation of the Institute of Mobility of Manizales through data-driven research.
- Developed Excel/VBA audit matrix tools for transport safety, reducing manual workload for public agencies.

RESEARCH CONSULTANT, UNIQUINDIO | ML MODELER

May 2024 – Jul 2024 | Remote