Diana Rocío Galindo González

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MSc student in data science with interest in developing analytics and data management projects. Background and experience in applied research and innovation projects for production and exploitation of georeferenced data and data analysis inference using statistical, machine Learning and AI algorithms methods.

Languages CEFR
Spanish (MT)
English C1

Tools and languages for data analysis
R, Rstudio (Advanced),
Python, Jupyter (Medium)
Pandas, scikit learn, matplotlib (Medium)
SQL,Neo4J

Geospatial data analysis
ArcGIS, QGIS,
R, Rstudio,
Geopandas,
PostGIS, Leaflet,
ERDAS, GRASS

Other tools
Linux, LaTeX

Other Courses
2019: Deep Learning
Big Data: Storage and large volumes of data
2018: Machine Learning and Data Science
2012: Agent-based modelling

Education

2021–Currently	MSc in Data Science 48/120 credits	Universidad Politécnica de Catalunya
2011–2013	M.Sc. in Geospatial Technologies	University of Muenster - Universidade Nova de Lisboa
2009–2010	Specialist in Statistics	Universidad Nacional de Colombia
2000–2006	Cadastral Engineer and Geodesist	Universidad Distrital Francisco José de Caldas

Professional experience

2020 - 2021 — National Geographic Institute of Colombia - IGAC

Lead institutional research in geospatial technologies and geographic information management policies and the National Spatial Data Infrastructure of Colombia (ICDE) and the multipurpose cadastre.

Spatial Data Infrastructures, Machine Learning, Deep Learning, Earth Observation
More information: Investigaciones 2020 and ICDE Colombia

2018 & 2020 — National Department of Statistics in Colombia - DANE

Research and Development projects oriented to statistical and geographic information integration and explotation in Geostatistics Direction.
Spatial analysis, Machine Learning, Clustering, PCA,Data Visualization, Webscrapping.

2019 - 2020 — Cadastral administrative Unit of Bogota

Geographic information management policies related to multipurpose cadastre and real state data .
Real state valuation and public policy, Geospatial Data management and integration

2015-2017 — Colombian Agency for reintegration and normalization - ACR

Analysis of spatio-temporal information associated to ex-combatants reintegration processes
Spatial analysis and risk modelling

2013 - 2015 Ingecontrol S.A., Gestión Integral de Proyectos SAS and Indra Sistemas
Design and implementation of Geoprocessing Tool associated to Early Intervention in territory for HSE and Operational Sustainability Vice Presidency of Ecopetrol S.A.
Spatial analysis and geoprocessing, data integration and management

2010 - 2011 National Department of Statistics in Colombia - DANE
Updating census information related to housing using satellite data imagery and alternative information sources
Earth Observation data analysis, Spatial analysis and geoprocessing, data integration

2007 - 2010 National Geographic Institute of Colombia - IGAC
Orthorectification of satellite images and aerial photographs and Edition, structuring of geographic information for official cartography of Colombia
Earth Observation data analysis, Cartography

Scholarships and achievements

2013 Universidade Nova de Lisboa
Best student of the MSc program in Geospatial Technologies during the 2011-2012 school year at ISEGI

2011 University of Muenster - Ministry of Innovation, Science and Research NRW
MSc Scholarship in Geospatial Technologies

2006 Universidad Distrital Francisco José de Caldas
Meritorious Bachelor Degree Project

Publications

2019 Applied Spatial Analysis and Policy
Statistical and Spatial Analysis of Census Data for the Study of Family and Industrial Farming in Colombia

2013 13th International Multidisciplinary Scientific GeoConference, SGEM2013
Merging multispectral and pancromatic bands of Landsat using cokriging

2010 XX Simposio Colombiano de Estadística
Obtención del mapa de cobertura del páramo del Sumapaz