María Paula Rodríguez

Geoscientist

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Fully bilingual Geoscientist with over 3 years of experience in the Geographic Information Systems (GIS) technology sector. Greatly interested in understanding the climate change impacts, analyzing risk and building actionable solutions through Data Science, GIS and Remote Sensing. Highly proficient in mapping, spatial analysis and data analytics using ArcGIS software and applications, QGIS, Pix4D and PCI Geomatica. Additional experience automating spatial data analysis and management with Python and MATLAB. Willingness to keep learning and assertively working in multidisciplinary teams to find sustainable solutions to real-world challenges.

Education

Sep 2022 – Present	**Copernicus Master in Digital Earth**
	Paris Lodron University – Salzburg, Austria
Jan 2014 – Nov 2018	**Bachelor of Science in Geosciences**
	Universidad De Los Andes – Bogotá, Colombia
	GPA: 4.42/5.00 (Ranked in top 10%)

Work History

Jan 2021 – Jul 2022

Esri International Support Analyst Tier 2
Esri Colombia – Bogotá, Colombia

- Mentoring and guiding the Tier 1 analysts on understanding and finding the best solutions to the most challenging technical issues associated to the implementation and use of the ArcGIS products.
- Promoted to collaborate from a technical perspective in the Tier 1 cases, not only of the LATAM Support Center, but also of the APAC Support Center due to the excellent feedback given by the customers and the analysts.
- Training at least 5 hours per week to be updated about the ArcGIS products functionalities and applications

Mar 2019 – Dec 2020

Esri International Support Analyst Tier 1
Esri Colombia – Bogotá, Colombia

- Provided high-quality technical support in English to Esri's global clients and employees through effective communication and troubleshooting.
- Resolved over 800 technical issues related to ArcGIS Desktop, ArcGIS Pro, ArcGIS Online, mobile applications (ArcGIS Field Maps, ArcGIS Collector, ArcGIS Survey123, ArcGIS Navigator, etc.) and ArcGIS Enterprise. Overall customer satisfaction rate: 4.96/5
- Assisted the Alabama Forestry Commission in more than 50 cases regarding the creation and troubleshooting of Field/Web Applications implemented to have a timely response to natural disasters (e.g., Hurricane Michael) and to invasive species (e.g., Cogongrass). Customer satisfaction rate: 5/5

Nov 2018 – Mar 2019

Junior Geologist
Neoil Exploration – Bogotá, Colombia

- Developed over 150 maps with ArcGIS Desktop in order to display, integrate and analyze the geographic, geological, stratigraphic and seismic data of the Catatumbo, Upper Magdalena, Lower Magdalena and Cauca Patía basins of Colombia.
- Performed quality assessment of the study area wells and seismic data provided by the Colombia's National Hydrocarbons Agency (ANH). Compiled and administered all the qualified data in the geodatabases of the company
- Completed 2D and 3D seismic interpretation and well-logs correlation using KINGDOM software

Oct 2018

Research Assistant
Universidad de Los Andes – Bogotá, Colombia

- Actively worked in a multidisciplinary team (with geologists and civil engineers) to understand the current state of mass movements and latent instabilities of Montoso, located the southern side of the Doña Juana Volcanic Complex (Nariño, Colombia).
- Made the slope and geological map of the area of interest with ArcGIS Pro
- Analyzed the study area particle distribution with ImageJ based on the UAV imagery collected in the field. Created histograms showing the particle size distributions in MATLAB

Jun 2018 – Aug 2018	**Research Intern** *Cornell University – Ithaca, United States*

- Assisted the PhD students in the Laboratory of petrology and geochemistry of the Department of Earth and Atmospheric Sciences (EAS) under the supervision of Professor Esteban Gazel.
- Prepared the rock samples collected in the Canary Islands for petrographic and chemical analysis of the olivine-hosted melt inclusions (MI)
- Recorded and analyzed the MI physical properties utilizing the petrographic and stereoscopic microscope images.

Certifications and Conferences

Oct 2021 – No Expiration Date	**ArcGIS Desktop Associate 19-001** Issued by Esri
Sep 2021 – No Expiration Date	**ArcGIS Pro Foundation 2101** Issued by Esri
Since Jun 2019 – No Expiration Date	**94 Esri Courses Completed**
Aug 2017 – Sep 2017	**Oral presentation - XVI Colombian Congress of Geology and III Symposium of Explorers** *Santa Marta, Colombia* "Fase retrógrada esquisto verde en los esquistos azules de Jambaló, Cauca". Advisor: Andrés Rodríguez, M.S.

Honors and Awards

Sep 2022 – Present	**Erasmus Mundus Joint Master fully funded Scholarship** *European Union*
Oct 2018	**Academic Excellence Distinction** *Universidad de Los Andes — Bogotá, Colombia* Highest overall GPA of the Geosciences program in the first semester of 2018.
Mar 2021 – Sep 2018	**Undergraduate thesis Project with honors– Nominated to Otto de Greiff Award** *Universidad de Los Andes – Bogotá, Colombia* Thesis project: "Petrography of the Doña Juana Volcanic Complex (DJVC) basement: implications in the Quaternary magmatism". Advisor: Natalia Pardo Villaveces, PhD. Co-Advisor: Ana Ibis Despaigne, PhD.
Jan 2014 – Oct 2018	**Undergraduate scholarship:"Quiero Estudiar Escala"** *Universidad de Los Andes – Bogotá, Colombia* Undergraduate Academic excellence scholarship

Languages

Spanish - Native
Excellent

English - TOEFL iBT 103/120
Very Good

Skills

- GIS: ArcGIS (Desktop, Online and Enterprise), QGIS and PCI Geomatica
- Earth Observation: eCognition
- Photogrammetry: Pix4D
- Programming languages: Python and MATLAB
- Databases: Microsoft SQL Server and PostgreSQL
- Others: Adobe Illustrator and MS Office