



# RUBIERE RAMIREZ

Geoinformatician | Urban Earth  
Observation Researcher

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- 🏠 Belmopan, Cayo, Belize
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## EDUCATION

MSc Geographical Information  
Science and Systems (In  
Progress),  
Universität of Salzburg, Austria  
Expected 2026

BSc Natural Resource  
Management  
University of Belize, Belize  
2014

## SKILLS

R, R-Spatial, Python,  
GeoPython, SQL, Spatial  
SQL, QGIS, ArcGIS Pro,  
Spatial Data Science, Data  
Engineering, Remote  
Sensing, Earth Observation,  
Google Earth Engine,  
PostgreSQL PostGIS, OSGeo  
Geoserver, Web GIS,  
Geovisualization and  
Geocommunication

## LANGUAGES

English

Spanish

## ► PROFILE

A geoinformatician with over eight years of experience in proprietary geographic information systems (GIS), free and open-source GIS, spatial data programming, spatial database management, remote sensing, earth observation, and spatial data engineering.

## ► WORK EXPERIENCE

### Geographic Information System Assistant

Statistical Institute of Belize, Bemlopan City, Belize | 2022 - Present

Administer and maintain Enterprise GIS, spatial databases, services, Web GIS applications and perform earth observation on the built environment.

- Develop, administer and maintain spatial databases on PostgreSQL database with PostGIS extension.
- Develop, administer and maintain web applications on free and open-source software for geospatial (FOSS4G): GeoServer & Mapstore2; and on commercial off-the-self (COTS) software: Portal for ArcGIS & ArcGIS Server, Oracle Application Express.
- Create Sentinel-2 Geomedian of Belize with Google Earth Engine and classify urban areas with machine learning in Python.
- Develop tools to automate tasks and to standardize the extraction, transformation and loading of non-spatial data and spatial data into SIB's spatial data repositories with SQL, R, and Python.

### Geographic Information System Technician

Statistical Institute of Belize, Bemlopan City, Belize | 2018– 2022

Create spatial data using front-end geospatial software and produce maps.

- Heads-up digitized building footprints for the entire country of Belize.
- Perform remote sensing techniques to detect changes in urban areas in QGIS.
- Process aerial photos from drone imagery in QGIS and ArcGIS Pro.

### Geographic Information System Technician

Statistical Institute of Belize, Belize City, Belize | 2017– 2017

Assist CZMAI with data creation and field data collection.

- Heads-up digitized and updated building footprints for Caye Caulker using Google Earth Pro and existing building footprints.
- Assisted with the collection of land use and building information in Caye Caulker using Open Data Kit for android devices.