



# Guillermo D'Angelo

GIS ANALYST · DATA ANALYST · TEAM MANAGER

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## Education

### University of the Republic - School of Sciences

MAJOR DEGREE IN GEOGRAPHY

- Oriented towards techniques for spatial analysis
- Thesis: Risk analysis of the coastal zone of Canelones department, Uruguay [🔗](#)

Montevideo, Uruguay

2008 - 2016

### University of the Republic - School of Social Sciences

MASTER IN DEMOGRAPHY AND POPULATION STUDIES

- Ongoing master thesis

Montevideo, Uruguay

2018 - Present

## Skills

<b>Programming Languages</b>	Python, R, Java Script
<b>Databases</b>	Postgres, PostGIS, pgRouting
<b>GIS Software</b>	QGIS, ArcGIS, ArcGIS Online, gdal, SAGA, GeoServer
<b>Remote Sensing</b>	ESA SNAP, Orfeo ToolBox, GRASS, SOPI
<b>Data visualization</b>	Matplotlib, plotly, Streamlit, leaflet
<b>Design</b>	Photoshop, GIMP, Illustrator, HTML, CSS
<b>Languages</b>	English, Spanish (native speaker)

## Experience

### Upwork - PeoplePerHour

DATA ANALYST AND GIS ANALYST FREELANCER

- Worked on several projects for clients in the US, UK, Germany, etc
- Developed geoprocessing scripts in Python
- Developed data processing pipelines in Python and Jupyter Notebooks
- GIS data production, wrangling and analysis
- Automated cartography production

Remote

Jun. 2021 - Present

### Department of Geography - Ministry of Social Development

TEAM MANAGER AND GIS ANALYST

- Managing a team of 15 people
- Data wrangling, data analysis and spatial analysis in Python and QGIS
- RPA in internal web apps (Qflow)
- Geodatabase administration and ETL processes
- Cartography, report writing and reviewing
- Staff training

Montevideo, Uruguay

Jun. 2014 - Present

### Department of Geography - Ministry of Social Development

GIS TECHNICIAN

- Data wrangling and geocoding
- Cartography and report writing
- Staff training
- Fieldwork

Montevideo, Uruguay

Nov. 2011 - Jun. 2014

### Department of Geography - School of Science

LECTURER IN THE UNIVERSITY OF THE REPUBLIC

- Theoretical lectures in Human and Economic Geography
- Fieldwork planning
- Cartography, data wrangling and data mining

Montevideo, Uruguay

Oct. 2013 - Jul. 2021

## Courses

2019	<b>Advanced course in GIS (ArcGIS Pro)</b> , Spanish National Geographic Institute	On-line
2019	<b>Urban informatics: data processing and data analytics</b> , School of Engineering - University of the Republic	Uruguay
2019	<b>Seminar on Geographic Information Management</b> , National Institute of Statistics and Geography	Mexico
2018	<b>Acquisition, Processing, Quality Control and Data Models of photogrammetric flights products</b> , Topocart LTDA.	Uruguay
2018	<b>Basic course in ArcGIS</b> , Spain's National Geographic Institute	On-line
2018	<b>Spatial Data Infrastructures</b> , Spanish National Geographic Institute	On-line
2018	<b>Introduction to SAR Remote Sensing</b> , National Space Activities Commission	On-line
2017	<b>Introduction to Remote Sensing</b> , National Space Activities Commission	On-line
2017	<b>Seminar on the Application of Astronautics and Satellite for Developing Countries</b> , Nanjing University of Information Science and Technology	China
2017	<b>From Complex Networks to Social Networks: introduction to big data</b> , Interdisciplinary Space - University of the Republic	Uruguay
2016	<b>Introduction to Social Network Analysis</b> , Catholic University of Uruguay	Uruguay
2016	<b>Geoservices with GeoServer</b> , gvSIG Association	Uruguay
2016	<b>Introduction to GeoServer</b> , Free Open Source Software for GIS Argentina	Argentina
2016	<b>Social perception of coastal risk as a tool for adaptation to global changes</b> , School of Science - University of the Republic	Uruguay
2016	<b>Risk Terrain Modeling for crime prediction</b> , Rutgers Center on Public Security	Uruguay
2014	<b>Introduction to PostGIS</b> , gvSIG Community Uruguay	Uruguay
2011	<b>GIS and geographic information quality</b> , School of Engineering - University of the Republic	Uruguay
2011	<b>Introduction to R programming</b> , School of Sciences - University of the Republic	Uruguay

## MOOCs

2020	<b>Introduction to Data Science in Python</b> , Coursera
2020	<b>Applied Machine Learning with Python</b> , Coursera
2020	<b>Applied Plotting, Charting and Data Representation in Python</b> , Coursera
2020	<b>Applied Social Network Analysis in Python</b> , Coursera
2020	<b>Spatial Data Science and Applications</b> , Coursera
2020	<b>Advanced Relational Database and SQL</b> , Coursera
2018	<b>Google Earth Engine for Remote Sensing and GIS</b> , Udemy

## Conferences

### SPEAKER

#### FOSS4GIS 2021

SPATIAL INTERACTION MODELS, INTERNAL MIGRATION AND FOSS4GIS

Buenos Aires, Argentina (on-line)

Set. 2021

#### 21st Century Geographers

RISK ANALYSIS OF THE COASTAL ZONE OF CANELONES DEPARTMENT, URUGUAY

Montevideo, Uruguay

Dec. 2017

#### 31st National Conference of Geography and the Environment

RISK ANALYSIS OF THE COASTAL ZONE OF CANELONES DEPARTMENT, URUGUAY: GEOGRAPHIC INFORMATION AS A TOOL FOR LAND MANAGEMENT

Montevideo, Uruguay

Set. 2017

#### Free Open Open Source Software for GIS Argentina

OPEN GIS FOR PUBLIC SOCIAL POLICY

Buenos Aires, Argentina

Apr. 2016

#### 3rd Workshop of gvSIG Uruguay

GIS FOR PUBLIC SOCIAL POLICY TARGETING 

Montevideo, Uruguay

Oct. 2014

### PARTICIPANT

## GeoPython 2021

PYBASEL

on-line

Apr. 2021

## Eighth Latin-american and Caribbean Workshops of gvSIG

GVSIG ASSOCIATION

Montevideo, Uruguay

Oct. 2016

## Third Workshop of Cartography

PANAMERICAN INSTITUTE OF GEOGRAPHY AND HISTORY AND THE MILITARY GEOGRAPHIC SURVEY OF URUGUAY

Maldonado, Uruguay

Oct. 2015

## Fifth National e-Governance Conference

AGESIC

Montevideo, Uruguay

Dec. 2012

## First Latin-american Conference of Urban Studies

NATIONAL UNIVERSITY OF GENERAL SARMIENTO

Buenos Aires, Argentina

Aug. 2011

## Publications

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### Risk analysis of the coastal zone of Canelones department, Uruguay: geographic information as a tool for land management

FIRST WRITER

Published in "Revista Geográfica", annual journal of the "Panamerican Institute of Geography and History"

Santiago, Chile

Jul. 2017

### Use of QGIS at the Ministry of Social Development of Uruguay

WRITER

QGIS Case Study

Online

Aug. 2017