

# DIEGO ALARCÓN

## M.Sc. in Remote Sensing

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## ABOUT

Geospatial Data Scientist and Land Surveyor Engineer with a Master's degree in Remote Sensing. Specialized in Geographic Information Systems (GIS) and possessing several years of experience in leveraging advanced technologies for spatial analysis and data visualization. Skilled in software, human resource management, and project coordination within geospatial domains. Committed to delivering exceptional results, I bring a purpose-driven approach to problem-solving and exhibit a track record of making independent and critical decisions to drive organizational success.

## EXPERIENCE

### Technical Support Engineer

#### UP42

Oct 2021 – Currently Remote from Würzburg, GER

- Provide support for Geospatial products.
- Resolve issues using UP42 console, Python library, and API.
- Coordinate and review restricted and commercial data access compliance.
- Zendesk Administrator for UP42 platform in customer support team.

### Master Student in Remote Sensing, EAGLE

#### Julius-Maximilians-Universität Würzburg

Sept 2019 – Dec 2021 Würzburg, GER

- Successfully conducted research and analysis for M.Sc. thesis focused on the application of Remote Sensing (RS) data and Machine Learning (ML) techniques for predicting table grape yields in Chile.
- Applied a novel approach to introduce RS data and ML models to estimate production yield for the study Farms.

### Senior GIS Analyst

#### Aguas Andinas

Nov 2018 – Sep 2019 Santiago, CL

- Supported and updated the GIS Department database.
- Updated the geodesic network of the company using geodetic GPS.
- Optimized internal company information processing using ArcGIS and Python.

### Survey Engineer

#### Digimapas Chile Aerofotogrametría Ltda

Jul 2018 – Sep 2018 Santiago, CL

- Conducted field data surveys using Total Station and Geodetic GPS.
- Analyzed Lidar data for finished products in civil works and mining projects.

### Trainee Planning Engineer

#### KTS Kabeltechnik GmbH

Apr 2018 – May 2018 Fulda, GER

- Planned fiber optic pipe and cabling for North Rhine-Westphalia and Hessen regions in Germany using GIS and aerial images.

## DATA SCIENCE

Geopandas



Pandas



Caret



GGplot



Scikit-learn



## MOST PROUD



#### Innovation

Creation of the official R GeodesiCL package.



#### Education

Achieve the dream of doing an internship at the DLR in Germany.



#### Mentoring

Creation of the Geocodigos Chile project where I taught the principles of coding for the Geosciences.

## MAIN SKILLS

Windows, Apple & Linux



ArcGis



QGIS



Python



R



## LANGUAGES

Spanish



English



German



## Senior Project Engineer

### Aconcagua Solutions

📅 Oct 2016 – May 2017

📍 Santiago, CL

- Processed data to enhance data quality and visualization.
- Conducted web scraping for public institution information.

## Field Analyst II

### Here Maps

📅 Sep 2013 – Feb 2016

📍 Santiago, CL

- Managed multiple projects, including Point of Interest and Extended Lane.
- Served as the representative for Data Base Engineering in Chile.

## Project Engineer

### Municipality of Providencia

📅 Apr 2012 – Feb 2013

📍 Santiago, CL

- Led cartographic and IT implementation projects.
- Developed an Excel Macro for the generation of a Semiautomatic Report.

## Project Engineer

### Interra Chile

📅 Jan 2012 – Mar 2012

📍 Santiago, CL

- Conducted manual terrain data classification for digital terrain models.
- Identified and interpreted elements in orthoimages to create associated models.

## EDUCATIONAL CORES

### Master Thesis, EAGLE / Julius-Maximilians-Universität Würzburg

📅 Aug 2021 – Dec 2021

📍 Würzburg, GER

"Exploring the potential of remote sensing using machine learning to predict yields for table grape farms in Chile".

- Data cleaning & preparation
- Python & R for Data Science
- The caret Package in R
- Remote sensing applications
- Machine learning applied to remote sensing

### EAGLE Internship, German Aerospace Center (DLR)

📅 Mar 2020 - Apr 2020

📍 Oberpfaffenhofen, GER

Use of NTL-Sensors to analyze the use of EU funds for public investments.

- Data preprocessing
- Calibration of NTL-Sensors
- Statistical aggregates & zonal histograms
- Time-series aggregation

## Udemy & others

📅 Continuous learning

📍 Würzburg, GER

Learning different topics for Data Science.

- Git+GitHub: A whole version control system from scratch
- 2022 Complete Python Bootcamp From Zero to Hero in Python
- Docker Essentials for Python Developers
- Machine Learning with R

## REFERENCES

### PhD. Sarah Schönbrodt-Stitt

@ University of Würzburg

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