



# FLORINDA MELÉNDEZ RODRÍGUEZ

DATA ANALYST / MOLECULAR BIOLOGIST

## INFORMATION

📍 Madrid (Spain)

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A passionate researcher, turned into a self-sufficient person during my PhD. Now I am enhancing my career towards Data Analysis using Python, SQL, APIs and I want to grow as a data analyst. Creating a good work environment through teamwork, motivation and empathy is amongst my main values.

## PROFESSIONAL EXPERIENCE

July 2019 – February 2020

### Postdoctoral

Research Unit of Santa Cristina Hospital/*Health Research Institute "Princesa"* (Madrid, Spain)

- Responsible for **several project lines**
- Experimental design and data analysis
- **Teaching and mentoring** activities and co-supervision of students

November 2011 – April 2019

### Ph.D. student

Research Unit of Santa Cristina Hospital/*Autonomous University of Madrid (Spain)*

- Participation in the **EU Consortium "EpoCan"**
- **Writing** of original articles and reviews
- Award of fellowship for predoctoral contracts funded by the Ministry of Economy in Spain
- [Publications](#)

## DATA ANALYST EXPERIENCE

### Data cleaning

Data cleaning, wrangling and analysis techniques using **Pandas**, **Numpy** and **Matplotlib** libraries and **regex**.

### Data pipelines

**Pipeline** generation to analyze a dataset based on parameters received through comand **flags** in shell.

### Geocoding

Use of **MongoDB**, **GeoJSON** points, **Folium** and **Google API** as the main tools to find the best location.

### Image segmentation

Image processing through segmentation technique using **Numpy**, **Pillow** and **SciPy** libraries.

### API development

Updating and recommendations using **NLP** from a database in **MongoDB** through an **API** by HTML requests.

### Supervised ML for prediction

Algorithms of **supervised ML** for regression in **Scikit-learn** library and **H2O** AutoML function to predict prices.

## DATA ANALYSIS PROJECT

May 2020

### Diagnosis of MSI gastrointestinal tumors

Biopsy images preprocessing and classification into MSI and MSS tumors for predictions:

- **cv2** module to **preprocess** the images.
- Use of an instance in **Google Cloud** platform.
- Supervised **Machine Learning** for classification.
- Training of convolutional **Neural Networks**.
- **API** to predict new biopsy images from users.

## EDUCATION

May 2020

### Data Analytics Bootcamp

*Ironhack (Madrid, Spain)*

April 2019

### Ph.D. degree (*Cum laude*)

*Autonomous University of Madrid (Spain)*

March 2013

### Experiment design and analysis of variance

*Health Research Institute "Princesa" (Madrid, Spain)*

June 2011

### Master's in Molecular and Cellular Biology

*Autonomous University of Madrid (Spain)*

July 2010

### Bachelor's degree in Biotechnology

*Pablo de Olavide University (Sevilla, Spain)*

## KEY SKILLS

### Language

🇪🇸 – Spanish: Native

🇬🇧 – English: Intermediate (B2 level)

### Hard skills

🐍 Python

🐘 MySQL

📊 Tableau

🌿 MongoDB

🐍 SciPy

🧠 Machine Learning

### Soft skills

- ✓ Teamwork
- ✓ Motivation
- ✓ Initiative

- ✓ Leadership
- ✓ Hard-working