



# Miguel Ángel Berrocal De Ó

Data Scientist  
Telecommunications Engineer MSc.



C/ Marie Curie N° 19  
Dos Hermanas (Sevilla)



+34 658 32 30 31



maberrocal@us.es  
migberde@gmail.com



<https://es.linkedin.com/in/maberrocal>



<https://maberrocal.github.io/Me/>

## ABOUT ME

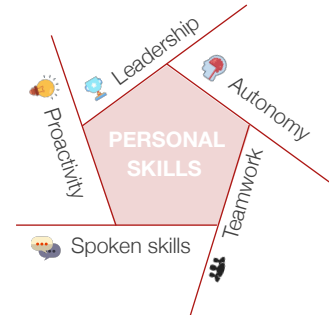
I'm a **Telecommunication Engineer MSc.** who has been working the last four years as a researcher, applying new technologies to commercial projects.

Currently I'm studying a Master in **Data Science and Big Data** technologies.

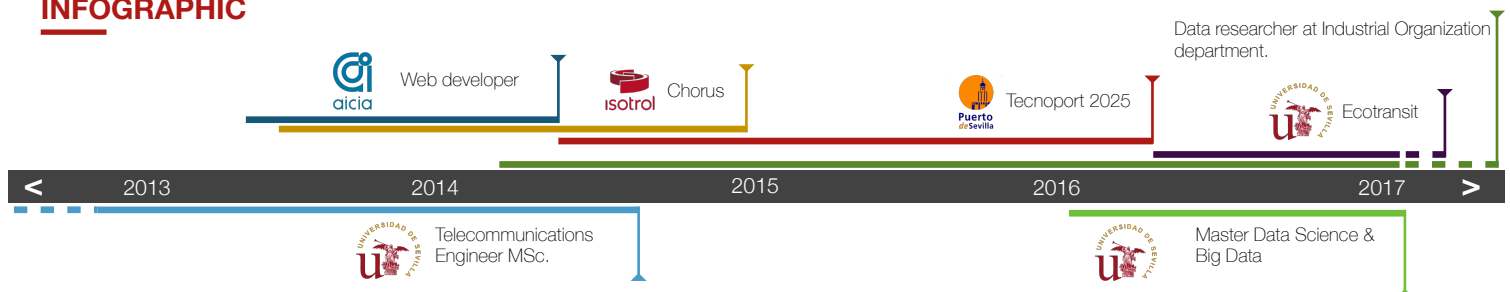
Nonconformity and entrepreneurship behavior makes me trying to **develop myself everyday** despite the complexity

I would like to be part of a company where I can improve my skills as a **Data Scientist**.

## PERSONAL SKILLS



## INFOGRAPHIC



## WORK EXPERIENCE

**R&D Engineer**  
2017  
Dpto. Organización industrial y gestión de empresas II ETSI (University of Seville) 3 years.

### Ecotransit: (April 2016 - )

Intelligent Ecosystem for a Sustainable, Safe & Integrated Freight Transport. ECOTRANSIT follows to develop low cost wireless sensors networks as well as logistics optimization systems to exploit real time information generated by this technology.

**Keywords:** Logistics, Python, E-Commerce

### Tecnoport 2025: (August 2015 - January 2016)

The TECNOPORT2025 project aims to develop an innovative, open and collaborative product to meet the opportunities and needs of the different actors and users of Port Authority services

Main developer in CUTS and FPS subprojects.

**Keywords:** Big Data, IoT, FiWare, Metaheuristics, Smart Cities

### Chorus: (September 2013 - December 2015)

Optimizing distributed energy generation costs with storage alternatives for electricity and heating. Design of an algorithm to optimize the energetic consumption of big industries whose supply model is based on distributed generation.

**Keywords:** AI, Metaheuristics, Smart Cities, Energy.

**Web developer**  
JUL 2014  
AICIA | 1 año  
Design, creation and maintenance of a corporate website for AICIA. Maintenance of an internal web destined to financial management.  
**Keywords:** Drupal, WordPress, MySQL, Apache

## EDUCATION

**Máster Data Science y Big Data**  
2017  
University of Seville | 1 year

Master's degree to professionally enable the student in the skills required for the computational and statistical treatment of data, using computer techniques and Artificial Intelligence.

Its orientation is mainly professional, whose contents are adapted to the real needs of the company. This degree qualifies the graduate as a data scientist within the company.

**Telecommunications Engineering MSc.**  
DIC 2014  
University of Seville

Telecommunications Engineering BSc +MSc.  
Electronic communications speciality.

Highest mark in my thesis, where AI techniques and predictive models were applied.

## PUBLICATIONS

### Energy

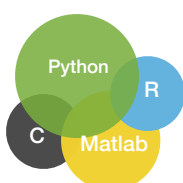
- Optimizing distributed energy generation costs with storage alternatives for electricity and heating.

### Logistics

- An allocation-scheduling heuristic to manage train traffic in an intermodal terminal.
- Integrated scheduling of operations to minimize delays in an intermodal container terminal

## PROFESSIONAL SKILLS

### Code



### BBDD

- Graph:** Neo4j
- Relational:** SQL
- Non relational:** MongoDB

### Data mining

- Web Scraping**
- Repositoriwa**
- API**

### Data science

- Machine learning**
  - SKlearn, Data munging
  - Xgboost, SVM, Keras
- Deep learning**
  - Dimensionality reduction.
  - Neural networks: Tensorflow
- Data visualization**

### Misc

- Algorithms**
  - IA
  - Metaheuristics
- Git**
- HTML5**
- CSS3**
- WordPress**

### Languages

