

## SKILLS

### DATA SCIENCE

- Statistical analysis
- Supervised learning
- Unsupervised learning
- Reinforcement learning
- Deep learning

### PROGRAMMING LANGUAGES

- Python • Matlab
- R • C++ • CSS

### OTHER

- Scikit-learn • Pandas • Numpy
- Matplotlib • Seaborn • ggplot
- Tensorflow • Ipython-notebook
- Amazon Web Services (AWS) EC2
- Linux • Ubuntu • GitHub
- $\text{\LaTeX}$  • markdown • Rmarkdown

## LANGUAGES

Spanish	native
English	full-proficiency Cambridge Certificate in Advanced English - CAE (C1) (2012)
French	basic

## EDUCATION

### DATA ANALYST NANODEGREE

 UDACITY   mongoDB , November 2016 - in progress

### MACHINE LEARNING ENGINEER NANODEGREE

 UDACITY  GOOGLE , July 2016 - November 2016

### MSC IN PHOTONICS

 POLYTECHNIC UNIVERSITY OF CATALONIA (UPC) 2013-2014  
Institute of Photonic Sciences (ICFO), UAB, UB

### TELECOMMUNICATION ENGINEERING (BSC + MSC)

 UNIVERSITY OF MALAGA 2005-2012

## COURSES

### MACHINE LEARNING COURSE

ANDREW NG

 STANFORD UNIVERSITY  COURSERA 2016

Certificate:

<https://www.coursera.org/account/accomplishments/certificate/BDUV2MJT2P7T>

## PROJECTS

 UDACITY  GOOGLE | MACHINE LEARNING NANODEGREE

- **Right Whale call recognition using Convolutional Neural Networks -** [source](#) November 2016
  - Training of Convolutional Neural Networks (ConvNets) models widely used for character recognition (LeNet5) for audio recognition. Detected up-calls with 0.95 Area Under the Curve (AUC).
  - Tensorflow, scikit-learn, python, pandas, numpy, csv, matplotlib
- **Building a Student Intervention System -** [source](#) July 2016
  - Analysis of high school students dataset to plan interventions
  - Optimized supervised learning algorithms. Tuned logistic regression model using 'grid\_search' and 'make\_scorer'
  - Logistic regression, Support Vector Machines, Decision trees, scikit-learn, python, pandas, numpy, csv
- **Creating Customer Segments -** [source](#) August 2016
  - Analysis of customers annual spending on diverse product categories
  - Implemented feature scaling and detected outliers. Applied principal component analysis (PCA) and dimensionality reduction
  - k-means, scikit-learn, python, pandas, numpy, csv, matplotlib

## EXPERIENCE


### UDACITY PROJECT REVIEWER

 UDACITY January 2017 - present | Remote

- Helped students of the Deep Learning Nanodegree in projects related to Neural Networks and Statistical Analysis.
- Python, numpy, pandas, scikit-learn, csv, matplotlib, jupyter-notebook

### PREDOCTORAL RESEARCHER

OPTICAL COMMUNICATIONS GROUP (GCO)

 POLYTECHNIC UNIVERSITY OF CATALONIA (UPC) October 2015 - October 2016 | Barcelona

- Developed Python and Matlab scripts for simulation of optical devices
- Simulated wavelength shifter for optical networks units with 54dB side band rejection