

SKILLS

DATA SCIENCE

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

PROGRAMMING LANGUAGES

- Python • Matlab
- \LaTeX • C++ • CSS

OTHER

- Scikit-learn • Pandas • Numpy
- Matplotlib • Ipython-notebook
- Linux • Ubuntu • GitHub
- Tensorflow
- Amazon Web Services (AWS)

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  | MACHINE LEARNING NANODEGREE

- **Right Whale call recognition using Convolutional Neural Networks -** [source](#) *September 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

PREDOCTORAL RESEARCHER

OPTICAL COMMUNICATIONS GROUP (GCO)

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

- Developed Python and Matlab scripts for simulation of optical devices
- Simulated wavelength shifter for optical networks units with a rejection on 54dB of the side band
- Researched in optical communications systems
- Designed new devices for highly efficient networks