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# Claudia Perez

## Data Analyst

I'm a Data Analyst with a Ph.D. in Computer Science and Mathematics and hands-on experience in complex problem-solving, Machine Learning and Statistics. Passionate about learning new technologies with strong autodidact skills and a great lover of Mathematics.

## Skills

### Mathematics

10+ years of experience

★★★★★

### Probabilities and Statistic

3+ years of experience

★★★★★

### Machine Learning

2+ years of experience

Scikit-Learn

★★★★★

### Deep Learning

1+ years of experience

Pytorch, Tensorflow, Keras

★★★★★

### Programming

8+ years of experience

Python, R & Matlab

★★★★★

### SQL

1+ years of experience

★★★★★

### Data Analysis

2+ years of experience

Pandas, Numpy & SciPy

★★★★★

### Data Visualization

+2 years of experience

Tableau, Seaborn, Matplotlib

★★★★★

### Algorithms Design

9+ years of experience

★★★★★

### Cloud Platforms

AWS, Microsoft Azure, IBM

Watson

★★★★★

## Languages

Spanish ★★★★★

English ★★★★★

French ★★★★★

## Experience

### 2019 - 2020 Associate Research

Autonomous University of the State of Morelos

- Perform EDA on DICOM and NIFTI representations of 2D and 3D medical imaging data with Python-based packages (pydicom, nibabel).
- Train common CNN architectures to classify 2D medical images of Chest X-rays with better performance than the silver standard approach (using three radiologists).
- Develop projects using machine learning, artificial intelligence and statistics with accuracy over 90%.
- Apply U-net algorithm to train an automatic segmentation model of a real-world CT dataset using PyTorch.

### 2015 - 2019 PhD Fellow

Autonomous University of the State of Morelos

- Classification of complex structures leading to graph representations.
- Tackling a classical algebraic problem as a graph problem, allowing to reduce the complexity of a well-know algorithm from  $O(6^n)$  to  $O(n^3)$ .
- Experience designing and developing algorithms for a wide range of problems, mostly in Python.

### 2011 - 2014 Associate Research Analyst

Havana University

- Development of algorithms based on statistical and algebraic criteria to find function (S-Box) with desired properties.
- Design and development of an AES-like Block Cipher with dynamical MDS matrices.
- Design and development of a Random Generator of MDS matrices.

## Education

### 2020-2020 AI for Healthcare Nanodegree

Udacity

### 2020-2020 Data Analyst Nanodegree

Udacity

### 2019-2020 Data Science Professional Certificate

IBM

### 2015 - 2018 PhD in Computer Science

Autonomous University of the State of Morelos, Mexico.

### 2012 - 2014 Master in Science.

Havana University, Cuba.

### 2007 - 2011 Bachelor in Mathematics

Havana University, Cuba.

\* A complete list of my most recent publications in international journals with peer review can be consulted in [my ORCID page](#)

\* A list of my most recent projects can be consulted in [my GitHub Portfolio](#)