

Personal Info
Phone +14703820513
Mail
claudia.p.ruisanchez@gmail.com
Professional Networks
LinkedIn

Claudia Perez

Data Scientist

I'm a Data Scientist 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

★★★★★

Languages
Spanish ★★★★★
English ★★★★★
French ★★★★★

Experience

2020

Data Science Consultant

- 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 - 2019

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](#)