

Personal Info

Location

Atlanta, Georgia, US.

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Networks

LinkedIn

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Yasel Garces

Data Scientist

Experience

2015 - 2020 **Data Science and Machine Learning Consultant** [Institute of Biotechnology, Mexico](#)

- Designed and implemented a new super-resolution microscopy algorithm using Convolutional Neural Networks and Stochastic Processes.
- Proposed and validated the first model that explains the interactions between biological elements through super-resolution microscopy and machine learning with accuracy over 98%.
- Coordinated and supervised cut edge projects in a multidisciplinary environment with teams with more than 10 members.

2011 - 2014 **Machine Learning and Computer Vision Research** [Institute of Cybernetics, Mathematics and Physics](#)

- Conceptualized and validated a new metric distance based on advanced linear algebra (ring theory) and information theory to measure in real-time the distance between images with accuracy up to 95%.
- Designed prototypes to test assumptions, features selection, and identification of the computer vision algorithms capabilities through machine learning and statistical analysis.
- Improved by 5 times the computational cost of several computer vision problems through top-down approaches (making models) or bottom-up approaches (inferences from data).

2020 - **Data Science Consultant** [Self-Employed](#)

- Coordinated projects for more than 30 customers with a wide range of data science problems with a satisfaction rate of over 94%.
- Organized and guided data scientists teams that helped boost the revenue by 230%.
- Developed several projects using machine learning, artificial intelligence, and statistics with a mean accuracy over 87%.
- Proactive, quality-oriented, adaptable, and problem-solving in manage and lead multiple teams/projects simultaneously.

Skills

Mathematics

10+ years of experience

★★★★★

Probabilities and

Statistic

10+ years of experience

★★★★★

Machine Learning

8+ years of experience

Scikit-Learn, Caret

★★★★★

Deep Learning

1+ years of experience

NN, Convolutional NN, Recurrent

NN, Generative Adversarial NN

★★★★★

Programming

8+ years of experience

Python, R & Matlab

★★★★★

SQL

4+ years of experience

★★★★★

Data Analysis

9+ years of experience

Pandas, Numpy & SciPy

★★★★★

Data Visualization

8+ years of experience

Seaborn, Matplotlib & ggplot2

★★★★★

Algorithms Design

9+ years of experience

★★★★★

Computer Vision

7+ years of experience

★★★★★

Languages

Spanish ★★★★★

English ★★★★★

Education

2020 **Deep Learning Nanodegree** [Udacity, United States of America.](#)

2016 - 2017 **Data Science Specialization** [Johns Hopkins University, United States of America.](#)

2015 - 2017 **Ph.D. in Mathematics and Computer Science** [Autonomous University of Morelos, Mexico.](#)

2012 - 2014 **Master in Applied Mathematics** [Havana University, Cuba.](#)

2007 - 2011 **Bachelor in Mathematics** [Havana University, Cuba.](#)

Projects

April - 2020 **The Impact of Weather in the Coronavirus Spread** [Codes](#)

- Data collection, exploratory, descriptive and statistical analysis, visualization and results communications.
- Evaluated the impact of the temperature, humidity, and pressure on the spread of the coronavirus.

2017 - 2019 **Nanoscale Organization of Rotavirus Replication Machineries** [\(Publication, Codes\)](#)

- Data collection and curation, Software, Formal analysis, Supervision, Validation, Research, Visualization, and Methodology.
- Proposed a new microscopy, computer vision and statistical analysis to study rotaviruses, providing a new framework based on a machine learning algorithm to understand many aspects of rotaviral biology.

* Publications in international journals with peer review could be consulted in [my ORCID page](#)

* Some of my projects can be consulted in [my Github repository](#)