

SANTIAGO ROSAS PLAZA

DATA SCIENTIST AND GENOMIC

<https://github.com/Santiago-Rosas>

Contact: 55 41 31 35 11

santiagorosasplaza@gmail.com

Coyoacán, Ciudad de México

ABOUT ME

During my PhD I have focused on the analysis of genomic data applying the knowledge of computer science and statistics to understand biological processes.

Beyond that, I believe that data analysis and ML algorithms are tools that can help to improve our society.

Interested in big data, databases, statistical analyses, and machine learning algorithms. Currently looking for a Data Scientist position in industry.

EDUCATION

PhD in Sciences (bioinformatics, biostatistics, and genomics)

Universidad Nacional Autónoma de México (UNAM)
2020 - 2023

Master of Science (biostatistics and genetics)

Graduated with honors
Universidad Nacional Autónoma de México (UNAM) 2016 -
2018

Bachelor in Biology

Universidad Autónoma Metropolitana 2009 - 2013

SKILLS

Statistics (descriptive and inferential statistics, EDA)

Linux bash

Python (numpy, pandas, matplotlib, scikit-learn, FastAPI)

R language (tidyverse, dplyr, ggplot2, caret)

Repositories and data version control (Git, Github, DVC)

CI and CD (Github-Actions, DVC)

Containers (Docker)

Basic SQL language (postgresql, MySQL)

Google Cloud Platform

Genomics (DNA sequencing and genome assembly)

EXPERIENCE

Assistant director in the molecular biology laboratory of SENASICA

Supervision and standardization of molecular techniques for the detection of diseases of different animals of economic importance

January - December 2019

Associate Professor in Molecular biology course, Instituto de Biología (UNAM)

Practical and theoretical course of molecular and computer tools for DNA analysis. From DNA extraction to bioinformatic analysis

August-December 2017

Associate Professor in Agroecology course, Instituto de Biología (UNAM)

Basic concepts and basic statistical analysis in R applied to agroecological systems.

CERTIFICATIONS AND COURSES

Data science school with python

Platz

2021 - 2023

Bioinformatic tools for human microbiome analysis

Facultad de medicina, UNAM

Python and R packages in the analysis of massive sequencing data for human microbiome research

February - July 2021

Biostatistics in R

Instituto de Geología, UNAM

Statistical analysis in R applied to ecology

February - July 2016

PUBLICATIONS

Human Gut Microbiome Across Different Lifestyles: From Hunter-Gatherers to Urban Populations

Frontiers in Microbiology · Apr 26, 2022

Multiple approaches in the study of ancient human microbiome

Ecosphere (ESA journals) · In review
