

# SANTIAGO ROSAS PLAZA

DATA SCIENTIST AND GENOMIC

<https://santiago-rosas.github.io/portfolio/>

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## ABOUT ME

During my doctoral studies, I specialized in the analysis of genomic data, leveraging computer science and statistical knowledge to decode complex biological processes. I believe that data analysis and machine learning are powerful tools with the potential to positively impact our society. I'm currently seeking a position as a Data Scientist in the industry. For a detailed overview of my journey and a showcase of my Data Science projects, please visit my [web page](#).

## 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.

*August-December 2018*

## CERTIFICATIONS AND COURSES

### Data Science with python

*Platzi*

2021 - 2023

### Data Science Professional Certificate

*IBM*

2023

### Statistics in R

*Instituto de Geología, UNAM*

Statistical analysis in R. Descriptive statistics, inferential statistics and Multivariate analysis

February - July 2016

### 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

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## PUBLICATIONS

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

Frontiers in Microbiology · Apr 26, 2022

<https://www.frontiersin.org/articles/10.3389/fmicb.2022.843170/full>

### **Multiple approaches in the study of ancient human microbiome**

In review

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