

# SANTIAGO ROSAS PLAZA

DATA SCIENTIST AND GENOMIC

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

Contact: 55 41 31 35 11

santiagorosasplaza@gmail.com

Coyoacán, Ciudad de México

## 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. 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 (postgresSQL, MySQL, SQLAlchemy)

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 in linux bash, R and python

August-December 2017

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

Data Frames manipulation 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

## PUBLICATIONS

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

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

Frontiers in Microbiology · Apr  
26, 2022

In review