

# Luigui Gallardo-Becerra

DATA SCIENTIST & BIOINFORMATICIAN

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Data Scientist with a strong background in bioinformatics, data analysis, and machine learning. Experienced in processing large-scale datasets, developing predictive models, and implementing data pipelines. Proficient in Python, R, and SQL with expertise in statistical analysis, and visualization.

## Experience

### Graduate Research Assistant

Institute of Biotechnology, UNAM

January 2019 - Current

- Developed machine learning models to analyze metagenomic and transcriptomic datasets.
- Created reproducible bioinformatics pipelines using Nextflow and Snakemake.
- Managed and optimized high-performance computing (HPC) workflows.
- Conducted statistical analyses to identify biomarkers in complex biological datasets.

### Data Engineer

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October 2016 - December 2018

- Preprocessed and analyzed large-scale datasets for various AI-driven projects.
- Implemented SQL-based ETL pipelines for data integration.
- Automated data collection and preprocessing workflows using Python and Bash.

### Software Engineer (Internship)

Dept. of Computer Science, CUCEI

January 2016 - July 2016

- Developed a cloud-deployed web application using ASP.NET Core for patient record management, contributing to both backend and frontend development.

## Education

### National Autonomous University of Mexico

PH.D. (COMPUTATIONAL BIOLOGY)

Mexico City, Mexico

January 2019 - Current

### National Autonomous University of Mexico

MASTER OF SCIENCE (COMPUTATIONAL BIOLOGY)

Mexico City, Mexico

August 2016 - January 2019

### University of Guadalajara

BACHELOR OF SCIENCE (MOLECULAR BIOLOGY)

Guadalajara, Mexico

August 2012 - January 2016

## Key Skills

- **Programming Languages:** Python, C#, R, SQL, Bash, HTML, CSS, JavaScript, TypeScript
- **Tools & Frameworks:** HPC, Linux, Docker, Tableau, Nextflow, Snakemake, Jupyter Notebooks, Rstudio, Django, ASP.NET, React, Angular, Shiny
- **Software Development:** Web application development, database management, version control (Git), unit testing, Agile methodologies
- **Bioinformatics:** 16S rRNA profiling, Genome/Transcriptome assembly, Metagenomics, Metatranscriptomics, Viromics
- **Soft Skills:** Team player, fast learner, excellent communication, problem-solving, multi-tasking
- **Languages:** English (Full professional proficiency), and Spanish (native)