Luigui **Gallardo-Becerra**

DATA SCIENTIST

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Data Scientist, passionate about Big Data, Computer Science, and Machine Learning, looking for new challenges to apply and expand my skills

About me

- In recent years, I participated in different projects using modern Genomic technologies (NGS), Data Analysis, and Data Science, to obtain novel information that culminated in high-impact peer-reviewed scientific publications

Experience

Data Scientist | Bioinformatician   *Institute of Biotechnology, UNAM*
                                                              January 2019 - December 2022

I was part of different research projects, from the beginning obtaining or creating the raw data to the final report or publication. The tasks that I carried out includes the following:

- Management of research projects: participated in the creation of main and secondary objectives and research questions from different projects to obtain novel biological information useful for the scientific community
- Server management (HPC): managed the Laboratory's server, installed Linux operative systems and specific software/packages, avoided server slowdowns, and built secure server environments
- Creation of pipelines: created pipelines to avoid repetitive workflows and make reproducible analysis using bash, python, Snakemake, and Rabix Composer
- Software development: developed several software tools to solve and achieve specific goals using bash, python, Perl, and R
- Creation of plots: using R, Rstudio, Jupyter Notebooks, Excel, Graphpad, and Tableau
- Maintenance of GitHub account (CI/CD): creation and maintenance of GitHub repositories
- Creation of reports/publications: using Markdown and Word, I delivered weekly and biannual reports to the members of the Laboratory. Also, I co-authored peer-reviewed publications that are highly cited in their respective areas
- Presentations to the general public and academic events: participated in scientific dissemination, specialized seminars, and congresses

Data Analyst (Part-time)   *Appen*
                                                              October 2016 - December 2018

I was an independent contractor and participated in several projects that included Data Sourcing and Annotation for different Appen clients (browsers, social networks, etc.). The tasks I performed were the following:

- Data collection and Preprocessing: obtention of raw data and preprocessing before passing it to the final client or the Machine Learning Department
- Creation of weekly deliverables: for the final client or project manager
- Content translation: from Spanish to English or English to Spanish

Software Engineer (Internship)   *Dept. of Computer Science, CUCEI*
                                                              May 2016 - July 2016

I participated in the creation of Scientific Software Development. The tasks that I carried out included:

- Creation of an API: using .NET, I created an API to save patients' records and images

Data Scientist | Bioinformatician (Internship) *Institute of Biotechnology, UNAM*
January 2016 - July 2016

I participated in the research project "Microbiome of Pacific whiteleg shrimp reveals differential bacterial community composition between Wild, Aquacultured and AHPND/EMS outbreak conditions". The tasks that I performed were:

- Big Data Analysis: using HPC, Linux, and bash, I analyzed the 16S rRNA information of several samples
- Creation of plots: using R, Rstudio, Excel, and Matlab
- Software development: I developed several tools for ETL data using bash, python, and Perl
- Creation of paper: with the data obtained from this internship, I co-authored this paper

Mathematics Teacher (Part-time) *Student Coaching*
January 2014 - December 2015

As a part-time teacher, I taught middle and high school students math classes to increase their grades or for college admission tests.

- Prepared group and individualized classes and lessons
- Applied weekly assessments to each student

Education

National Autonomous University of Mexico *Mexico City, Mexico*
August 2016 - January 2019

Master of Science (Computer Science and Biochemistry)

University of Guadalajara *Guadalajara, Mexico*
August 2012 - January 2016

Bachelor of Science (Computer Science and Molecular Biology)

Soft skills

- Team player who can also work independently with excellent communication skills
- Fast learner and could quickly adapt to new technologies.
- Excellent problem-solving capabilities.
- Can manage a significant workload or several projects from different areas without losing track of them.

Programing Languages, Tools & Bioinformatic skills:

- Python, R, SQL, Bash, Perl, C#, LaTeX, HTML & CSS, JavaScript, High-Performance Computing (HPC), Google Cloud, AWS, Linux, Tableau, Docker, Snakemake, Jupyter Notebooks, Rstudio, Django, ASP.NET, PostgreSQL, PySpark, MongoDB
- 16S rRNA profiling, Genome/Transcriptome assembly, and annotation, Metagenomics, Metatranscriptomics, Viromics

Languages

- English – Full professional proficiency
- Spanish – Native