

Mateo Jimenez-Sotelo

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Education

National Autonomous University of Mexico (UNAM)

B.Sc. in Genomic Sciences.

GPA 9.38/10 ($\approx 3.9/4.0$)

Morelos, Mexico

Aug 2024 – present

Relevant Coursework: Statistics, Probability, Calculus, Linear Algebra, Differential Equations, Bioinformatics, Genetics, Human & Population Genomics, Transcriptomics, Epigenetics, Molecular & Cell Biology

School of Medicine, UNAM

Academic Trainee

Moises O. Fiesco-Roa, Embryology and Genetics Department.

Mexico City, Mexico

May 2023 - August 2023

- *Enunciar qué cursos se tomaron (Fac. Medicina, Fac. Ciencias, Instituto Nacional de Pediatría)*

Awards

- Gold Medalist, Mexico City Biology Olympiad, 2023

Research Experience

International Laboratory for Human Genome Research, UNAM

Undergraduate researcher

PI: Maria Avila-Arcos, Population & Evolutionary Genomics Lab.

- *Enunciar qué se ha hecho en el lab*

Juriquilla, Mexico

Jan 2025 - present

Center for Genomics Sciences, UNAM

Undergraduate researcher

PI: Julio A. Freyre-Gonzalez, Systems Biology Lab.

- *Enunciar qué se ha hecho en el lab*

Morelos, Mexico

Dec 2024 - present

Courses

- **Large Language Models and HF ecosystem** - Hugging Face, Jan 2026
- **Human Population and Evolutionary Genetics** - MOOC, Institut Pasteur, Dec 2025
- **Fundamentals of Deep Learning** - Deep Learning Institute (NVIDIA) and the Institute of Biotechnology (UNAM), Aug 2025.

Skills

Programming Languages: Python (advanced), Bash (advanced), R (intermediate), C (basic), C++ (basic), Julia (basic), Perl (basic)

Libraries: Pandas, NumPy, PyTorch, Transformers, SciPy, Scikit-learn, BioPython, pyDESeq2

Bioinformatics: Genome assembly & QC, Metagenomics, Population genomics, Motif analysis, Regulatory Network analysis

Tools: SAMtools, BCFtools, Plink, Admixture, FastQC, SPAdes, Flye, QUAST, PROKKA, Kraken2, RSAT

Computing: Git, HPC environments

Omics: Bulk & single-cell RNA-seq, spatial transcriptomics

Languages: Spanish (native), English (C1)