

Curriculum vitae

Miguel Ángel González Arias

PERSONAL INFORMATION

Place and date of birth: Mexico city, Mexico. April 08, 1996 (28 years old)

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Socials: X (Twitter), [@miangoar](#); GitHub, [@miangoar](#); Personal website, [miangoar.github.io](#)

EDUCATION

Master degree in Biochemical Sciences (graduated with honors)

Institute of Biotechnology, National Autonomous University of Mexico (UNAM)

Cuernavaca, Morelos

Aug. 2020 – Aug. 2023

- Thesis: [Comparative evaluation of protein language models for betalactamase classification and prediction of their catalytic activity](#)
- Advisors: [Alejandro Angel Garciarrobio Granados](#) and [Lorenzo Patrick Segovia Forcella](#)
- Second advisors: [José Arcadio Farías Rico](#) and [Francisco Xavier Soberón Mainero](#)

Bachelors degree in Biology

Faculty of Sciences, UNAM

Coyoacan, Mexico city

Aug. 2015 – Jan. 2021

- Thesis: [Genome reconstruction from metagenomes of the Gulf of Mexico](#)
- Advisor: [Lorenzo P. Segovia Forcella](#)

Certified proficiency in English (equivalent to B2)

National School of Languages, Linguistics and Translation, UNAM

Coyoacan, Mexico city

Nov. 2019

TEACHING EXPERIENCE (AS INVITED PROFESSOR)

[Introduction to microbial genomics and taxogenomics](#)

Institute of Marine Sciences and Limnology, UNAM

Coyoacan, Mexico city

Sep. 2023

Introduction to protein science with machine learning

Center for Genomic Sciences, UNAM

Cuernavaca, Morelos

Feb. 2023

[Introduction to microbial ecology and metagenomics](#)

Faculty of Sciences, UNAM

Coyoacan, Mexico city

Jun. 2021

[Genome reconstruction from metagenomes](#)

Virtual event in collaboration with WinterGenomics

International

Jun. 2020

SCIENCE COMMUNICATION EXPERIENCE

Genome workshop

American Educational Center

Cuernavaca, Morelos

Nov. 2019

Festival of sciences and humanities

UNAM science Museum (Universum)

Coyoacan, Mexico city

Oct. 2019

Resource: [Personal blogpost on protein science and other topics](#)

Social media

Resource: [Annual biology student tips series](#)

Social media

COURSES AND SCHOLARSHIPS

Awarded scholarship: 1st Latin american workshop on genome mining <i>Mathematics Research Center</i>	Guanajuato, Mexico 2022
Awarded scholarship: Representation Learning in Biology ISMB/ECCB 2021 <i>Virtual event</i>	International 2021
Awarded scholarship: Introduction to cloud computing with Microsoft Azure (AZ-900) <i>Virtual event</i>	Mexico 2021
Awarded scholarship: Scholarship for master's studies by the UNAM <i>Institute of Biotechnology, UNAM</i>	Cuernavaca, Morelos 2021
Course: Tools for the analysis of metagenomic data <i>Institute of Biotechnology, UNAM</i>	Cuernavaca, Morelos 2020
Awarded scholarship: 4th International Symposium on Bioinformatics <i>National Institute of Public Health</i>	Cuernavaca, Morelos 2019
Course: Whole metagenome shotgun analysis and comparative genomics <i>Gulf of Mexico Research Consortium</i>	Cuernavaca, Morelos 2018

SKILLS AND EXPERIENCE

Biology: molecular biology, biochemistry, protein evolution, protein structure and function, phylogenomics, microbial ecology, metagenomics, next generation sequencing, comparative genomics, systems biology.

Informatics: python, R (basics), bash (Linux-GNU), computer hardware, data warling, data visualization, machine learning, deep learning, high performance computing (Oracle Grid Engine), cloud computing (Microsoft Azure and Google Colab), office suite tools, ChatGPT.

Languages: Spanish (native), English (B2).

Soft skills: organization, self-taught, story telling, curiosity, adaptability, friendly.

ACADEMIC REFERENCES

Lorenzo Patrick Segovia Forcella

Institute of Biotechnology, UNAM

- Contact: lorenzo.segovia@ibt.unam.mx

Alejandro Angel Garciarrubio Granados

Institute of Biotechnology, UNAM

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José Arcadio Farías Rico

Center for Genomic Sciences, UNAM

- Contact: jafarias@cgc.unam.mx

José Luis Puente García

Institute of Biotechnology, UNAM

- Contact: jose.puente@ibt.unam.mx

Claudia Martínez Anaya

Institute of Biotechnology, UNAM

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Luis David Alcaraz Peraza

Faculty of Sciences, UNAM

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