Curriculum vitae
Miguel Ángel González Arias

PERSONAL INFORMATION

Place and date of birth: Mexico city, Mexico. April 08, 1996 (27 years old)
Mail: gamamiguelangel@gmail.com
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Socials: X (Twitter), @miangoar; GitHub, @miangoar; Personal website, miangoar.github.io

EDUCATION

Master degree in Biochemical Sciences (ongoing) — Cuernavaca, Morelos
Institute of Biotechnology, National Autonomous University of Mexico (UNAM) — *Aug. 2020 – Aug. 2023*
- Thesis: Comparative evaluation of protein language models for betalactamase classification and prediction of their catalytic activity
- Advisors: Alejandro Angel Garciarrubio Granados and Lorenzo Patrick Segovia Forcella
- Second advisors: José Arcadio Farías Rico and Francisco Xavier Soberón Mainero

Bachelors degree in Biology — Coyoacan, Mexico city
Faculty of Sciences, UNAM — *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) — Coyoacan, Mexico city
National School of Languages, Linguistics and Translation, UNAM — *Nov. 2019*

TEACHING EXPERIENCE (AS INVITED PROFESSOR)

Introduction to protein science with machine learning — Cuernavaca, Morelos
Center for Genomic Sciences, UNAM — *Feb. 2023*

Introduction to microbial ecology and metagenomics — Coyoacan, Mexico city
Faculty of Sciences, UNAM — *Jun. 2021*

Genome reconstruction from metagenomes — International
Virtual event in colaboration with WinterGenomics — *Jun. 2020*

SCIENCE COMMUNICATION EXPERIENCE

Genome workshop — Cuernavaca, Morelos
American Educational Center — *Nov. 2019*

Festival of sciences and humanities — Coyoacan, Mexico city
UNAM science Museum (Universum) — *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   Guanajuato, Mexico
Mathematics Research Center   2022

Awarded scholarship: Representation Learning in Biology ISMB/ECCB 2021   International
Virtual event   2021

Awarded scholarship: Introduction to cloud computing with Microsoft Azure (AZ-900)   Mexico
Virtual event   2021

Awarded scholarship: Scholarship for master's studies by the UNAM   Cuernavaca, Morelos
Institute of Biotechnology, UNAM   2021

Course: Tools for the analysis of metagenomic data   Cuernavaca, Morelos
Institute of Biotechnology, UNAM   2020

Awarded scholarship: 4th International Symposium on Bioinformatics   Cuernavaca, Morelos
National Institute of Public Health   2019

Course: Whole metagenome shotgun analysis and comparative genomics   Cuernavaca, Morelos
Gulf of Mexico Research Consortium   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

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José Luis Puente García
Institute of Biotechnology, UNAM

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

Claudia Martínez Anaya
Institute of Biotechnology, UNAM

- Contact: claudia.martinez@ibt.unam.mx

Luis David Alcaraz Peraza
Faculty of Sciences, UNAM

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