






ERICK JESUS RIOS GONZALEZ


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 CDMX, Mexico

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TECHNICAL SKILLS

Languages: Java, R, SQL, Python, Excel, Power BI.

Libraries: Pandas, Sklearn, NumPy, SciPy, Tensorflow, Keras, Plotly, Matplotlib, Qiskit.

EDUCATION

DIC/2019
FEB/2024

-Bachelor's Degree in Physics

• Cumulative GPA 9.33
• *Relevant courses:* Computational Physics, Applied Probability, Numerical Solution of Partial Differential Equations, Numerical Methods.

Universidad Autónoma Metropolitana

AGO/2020
DIC/2024

-Bachelor's Degree in Mathematics.

• Cumulative GPA 9.55
• *Relevant courses:* Analysis, Databases, Algorithm Analysis, Data Structures, Computer Science, Artificial Intelligence, Probability, Statistics.

Universidad Nacional Autónoma de México

EXPERIENCE

JUN/2023
OCT/2023
Internship

-Dark Kitchens Intern / Data Science

• Database cleaning.
• Development of a Python model to detect growth areas for the Dark Kitchens division of DiDi LATAM.
• Implementation of models such as k-NN, decision trees.
Python(Pandas, Numpy, Sklearn, Tensorflow) / SQL / Excel

Didi Chuxing Technology Co

OCT/2022 -

Research Assistant / Machine Learning

• Development of a Deep Neural Network for correlating physical variables and topologies of a ferromagnetic material using the Ising Model.
• Database cleaning.
• Implementation of linear and logarithmic regression models.
• Topological data analysis.
Python(Pandas, Numpy, Matplotlib, Tensorflow, Keras) / Excel

Universidad Autónoma Metropolitana

OCT/2021
DIC/2022

-Research Assistant / Machine Learning

• Development of a Deep Neural Network to detect signals of Quantum Gravity in Gravitational Waves.
Python(Pandas, Numpy, Matplotlib, Tensorflow, Keras) / Excel

Universidad Autónoma Metropolitana

JUN/2022
JUL/2022
Becario

-Research Assistant / Expansion of HII Regions in Molecular Clouds

• Numerical study of the expansion of HII Regions.
• We implemented supercomputing facilitated by the National Laboratory of Supercomputing in South-eastern Mexico."
Python / FORTRAN

INAOE

MAY/2023

Assistant to the Second School in Quantum Computing

• Study of logic gates and circuits necessary for the development of quantum algorithms.
• Creation of a classification algorithm using Quantum Machine Learning on data provided by ICN (Instituto de Ciencias Nucleares).

Instituto de Ciencias Nucleares, UNAM

2023

Data School Participant
Attendee at 'Data Month 2023' organized by Microsoft. For learning Data Science, Artificial Intelligence, and Database (SQL).

Microsoft

LANGUAGES

English - B2+,Japanese -A5, Spanish - Native Speaker