

Emmanuel Isaac Juárez Caballero

Contact

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Portfolio:

eisaacjc.github.io

Languages

Spanish (Native)

English (Intermediate)

Abilities

Python, Julia, Matlab,

Wolfram Mathematica,

Linux Shell,

Redes LAN, WLAN,

Packet Tracer,

Math Problem Solving,

Physics, MS Office,

HTML5/JS (Basic)

Objectives

BSc. Physics (graduated). Currently attending a MSc. Artificial Intelligence at Universidad Veracruzana, with interests in Quantum Computing (quantum algorithms, quantum machine learning) and complex systems. Furthermore I'm interested on data science, data analysis, data mining.

Experience

2020	Investigation Summer UNAM <i>Summer Internship</i>	Simmetries on Tavis Cummings Hamiltonian. Instituto de Ciencias Nucleares
2019-2021	Research Assistant <i>Research Assistant with the project "Data Science and Data Analysis for the industry and science"</i> IIIA Xalapa, Ver. <i>Research Assistant.</i>	
2018 - 2021	Freelance professor for physics and mathematics (High-School) <i>Freelance</i>	Xalapa, Ver
2021	Coordinator of Olympic Physics Exams for Veracruz, Mex. <i>Faculty of Physics, UV.</i>	Xalapa, Ver
2021	Professor of Physics Olympiad for Veracruz (Undergraduate olympiad). <i>Sociedad Mexicana de Física.</i>	Xalapa, Ver
2021-2022	Professor of physics and mathematics. <i>Garden College, High School.</i>	Xalapa, Ver
2021-Present	MSc student at Instituto de Investigaciones en Inteligencia Artificial. <i>Research Institute on Artificial Intelligence, UV.</i>	Xalapa, Ver
2022-Present	High School professor of physics Xalapa, Veracruz	IEP

Education

2016 - 2021	Bsc. on Physics Grade A- (9.2 in scale 10). Thesis work with the title Stability of Dark States in three level system in Λ configuration. Formative courses on: data science, advanced topics in optics, complex systems. Faculty Of Physics, Universidad Veracruzana	Xalapa, Veracruz
2021-Present	MSc. Artificial Intelligence , Grade A- (92% over 100%). Formative courses on: computer vision, genetic algorithms, data science, machine learning, logic, computability, formal languages, probabilistic methods, programming languages. Research Institute in Artificial Intelligence, Universidad Veracruzana	Xalapa, Veracruz

Professional Training

2015	Curso:IT Essentials Cisco Netacad-COBAEV	Training on preventive and corrective maintenance for computers
2016	Curso: CCNA- Routing and Switching: Introducción a redes OSPF, Packet Tracer Cisco Netacad-COBAEV	Networking Protocols, IPv4, IPv6, RIP,
2015	CompTIA A+ Certification CompTIA	LANIA-Xalapa, Veracruz
2016	Microsoft MTA Certification Microsoft	LANIA-Xalapa, Veracruz
2020	Course: Intelligence Tools for the Digital Age Coursera	IE Business School - Coursera
2020	Course: Understanding Research Methods Coursera	University of London - Coursera
2020	Course: Habilidades y competencias claves para el mundo profesional ANUIES ANUIES	Santander-Universia,
2022	Quantum Summer Global School on Quantum Computing: Quantum Excellence	IBM

Additional

2015	Second place on a state competition (Veracruz) "Festival de la Juventud": Computer Net- working (4th semester) COBAEV	Xalapa, Veracruz
2015	First place on a regional competition (Xalapa): Computer Networking (4th semester) Paso de Ovejas, Veracruz COBAEV	
2016	Second place on a regional competition (Xalapa) "Festival de la Juventud" COBAEV	Cempoala, Veracruz
2019	Divulcation article: "Fractales: Patrones y naturaleza" Editorial UV- La ciencia y el hombre, Vol: XXXII, Número 3	Xalapa, Veracruz
2019	Data Challenge Indutrial 4.0 (Member of the winning team at advanced category in an Data Science contest) Centro de Investigación en Inteligencia Artificial, UV	Xalapa, Veracruz
2019-2020	Social Service: Professor assistant in Introduction to Calculus and Introduction to Modern Physics Dr. Carlos E. Vargas Madrazo Facultad de Física UV	Xalapa, Veracruz