

JAIRO ENRIQUE RAMÍREZ SÁNCHEZ


Profile


Passionate of technology development for humanitarian welfare. Excellent skills in data analytics, cryptography, and optimization. Experience in mobile programming, statistical modeling, and deep learning.


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 [Enrique Ramírez](#)

 [Jairo Enrique Ramírez Sánchez](#)

Investigations

Multilayer Neural Network for predicting death in cases of COVID-19 (2021).

Based on patients' comorbidities, the probability of death is calculated to provide physicians with an auxiliary tool when planning care.

Real-Time Mexican Sign Language Interpretation Using CNN and HMM (2021).

First proposal in Mexico to consider the analysis of facial expression to propose a complete interpreter from MSL to Spanish, by means of an architecture that emulates human comprehension.
https://doi.org/10.1007/978-3-030-89817-5_4

Achievements

2019 State Gold Medal and Fourth Place National in Mathematics.

UEMSTIS Academic Festival, Mexico.

2019 Leaders of Tomorrow Scholarship.

Tecnologico de Monterrey.

2021 Member of the Mexican Society of Artificial Intelligence.

2021 Bronze Medal in Technology Category. *World Youth Invention and Innovation Award (WYIIA), Indonesia.*

2022 Member of the Mexican Mathematical Society.

2022 Reviewer of research articles. *8th International Conference on Fuzzy Systems and Data Mining (FSDM 2022), Xiamen, China.*

Professional experience

HELLO WORLD (ENTREPRENEURSHIP).

Leader and Analytics Coordinator (July 2018 - current).

- Participation in the AT&T Foundry for the creation of inclusive cities.
- Acknowledgment as one of the best 55 global initiatives in social innovation by Universitas 21.
- Eugenio Garza Sada Award by Tecnológico de Monterrey as the best student social initiative 2021.

INTERNATIONAL GENETICALLY ENGINEERED MACHINE

Mathematical modeling and software (January 2020 - Nov 2021)

- Research focused on a biosensor for the detection and removal of endocrine disruptors in drinking water.
- Modeling with differential equations, implementation of predictive models based on machine learning and simulations.
- Gold Medal in the synthetic biology competition "Giang Jamboree" organized by MIT 2021.

Education

TECNOLOGICO DE MONTERREY - MEXICO

Data Science and Mathematics

Extracurricular preparation

INFECTIOUS DISEASE MODELING

Imperial College London on Coursera, Aug. 2020

SPECIALIZATION IN REINFORCEMENT LEARNING

Alberta Machine Intelligence Institute on Coursera, Jul. 2020

SPECIALIZATION IN DEEP LEARNING

DeepLearning A.I. on Coursera, Jun. 2020

Skills

- **Technical:** Statistical analysis, optimization, cryptography, classification algorithms, recurrent and convolutional neural networks.
- **Programming languages:** Advanced: Python, R, Java, Dart, MATLAB. Intermediate: PHP, SQL, JS, C++ & C#.
- **Soft skills:** Problem solving, planning, analysis, organization, communication.
- **Software:** Tableau, MS excel, photoshop, Mathematica.

Languages

SPANISH NATIVE

ENGLISH B2 (TOEFL ITP 550)