Alfonso Toriz Vázquez

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EDUCATION

UNIVERSIDAD DEL VALLE DE MÉXICO | B.S. in Biomedical Engineering
September 2017 - Expected Dec 2021 | Querétaro, México

WALDEN UNIVERSITY | Certificate of Recognition in Global Marketing and Communications
July 2017 – December 2018 | Minnesota, United States - Online

RESEARCH

IIMAS (RESEARCH INSTITUTE FOR APPLIED MATHEMATICS AND SYSTEMS RESEARCH), UNAM (NATIONAL AUTONOMOUS UNIVERSITY OF MEXICO)   Research Intern
July 2020 – Present | Online
Worked with PhD. Nidiyare Hevia-Montiel, PhD. Jorge L. Pérez-Gónzalez and Natalia Sánchez-Patiño in applying a convolutional neural network (U-Net architecture) to detect and segment Trypanosoma Cruzi's amastigotes in histopatological images. Pending review for EMBC 2021 congress.

EXTERNAL PROJECTS

SIGNAL ALIGNMENT
Collaborator
October 2020 - December 2020 | Online
Worked with PhD. Paulo C. Manrique-Mirón in the alignment of two biomedical signals by calculating the euclidean distance between them and applying DTW (Dynamic Time Warping) algorithm.

ACKNOWLEDGMENTS

DATAMEXICO CHALLENGE FINALIST
Collaborator
December 2020 | Online
Finalist during DataMexico. Challenge held by Mexican Secretariat of Economy with the analysis of the relationship between lockdown and crime, specifically violence against women .PPT

PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS

AAAI (ASSOCIATION FOR THE ADVANCEMENT OF ARTIFICIAL INTELLIGENCE) STUDENT CHAPTER MEXICO | Collaborator
September 2020 – Present | Yucatan, Mexico - Online

- Contributing in the development of a scientific popularization podcast called Wolfcast, as well as in the logistics of an bioengineering and robotics event called AAAIMX Conecta-T.

SCJ (JUVENILE SCIENTIFIC SOCIETY) - QUERETARO, MEXICO | Collaborator
July 2020 – Present | Queretaro, Mexico

- Contributing in a recurring television talk show segment in RTQ (Radio and Television Queretaro) about raising awareness for COVID-19, environmental pollution and global.
- Making infographics about different scientific topics to popularize them.

TALKS

November 2020 | Online
"Histopathological Image Analysis and Machine Learning."International Conference on Biomedical Engineering Scopes held by IIMAS, Mexico.

LANGUAGES

PROGRAMMING

Experience:
Python • LaTeX
Familiar:
MATLAB • R • Julia

SPOKEN & WRITTEN

Native fluency:
Spanish
Fluent
English

INTERESTS

Biomedical Image Processing
Biomedical Signal Processing
Artificial Intelligence