

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-González and Natalia Sánchez-Patiño in applying a convolutional neural network (U-Net architecture) to detect and segment Trypanosoma Cruzi's amastigotes in histopathological 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