Dante Velasquez

Austin, Texas

 \bigcirc dvelasquez@chapman.edu \square 707-567-3880

EDUCATION

Case Western Reserve University

Cleveland, OH

BS in Biomedical Engineering, Minors: Computer Science, Data Science

May 2019

Chapman University

Orange, CA

MS in Computational and Data Science

Expected Graduation: December 2021

EXPERIENCE

Sylvan Learning Center

Irvine, CA

Programming and STEM Instructor

Feb 2020 - Present

- o Teach STEM and programming to 8 students
- o Created teaching aid using Lua resulting in a video game learning environment

Chapman University

Orange, CA

Graduate Researcher

Sept 2019 - Present

- o Object detection in cancer images using deep learning
- Creating pipeline for topologically informed cell detection

Chapman University

Orange, CA

Graduate Teaching Assistant

Aug 2020 - Jan 2021

o Instructor for electricity and magnetism laboratory

Case Western Reserve University

Cleveland, OH

Undergraduate Researcher

May 2017 - May 2018

- Predicted success of brain tumor treatments from MRI images
- Data preprocessing for downstream machine learning models

Case Western Reserve University

Cleveland, OH

Undergraduate Researcher

March 2016 - March 2017

- Statistical modeling of biological data
- o Publication: Journal of Stem Cell Research & Therapy.

Alpha Micron

Cleveland, OH

Intern

Summer 2014

 Assisted in the development of liquid crystal cells with specific optical properties for commercial and military use

PROJECTS & PRESENTATIONS

Advancing Pediatric Research During the COVID-19 Pandemic

Nov 18, 2020

Presented work on automated cell detection in cancer images using machine learning

Mesenchymal Stem Cell Soluble Mediators and Cystic Fibrosis

Aug 2017

o Manuscript submitted to the Journal of Stem Cell Research & Therapy

Device for Portable Neonatal Hypothermia Therapy

Aug 2018 - May 2019

 Create a portable device to treat neonatal hypoxic-ischemic encephalopathy and presented and demonstrated this device at two research symposiums (Dec. 13 2018, May 9 2019)

ADDITIONAL TECHNICAL SKILLS

- o Programming Languages: Python, MATLAB, R, Julia, Java, C, SQL
- o Technical Items: GIT, Linux (Ubuntu), PyTorch, Tensorflow, OpenCV
- o Fluent in English, beginner Spanish
- o Relevant Coursework: Data Structures and Algorithms, Machine Learning, Operating Systems, Data Mining