Francisco Sandoval

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Education

University of California, Davis

Jun 2017

Santa Rosa Junior College

May 2015

BS | Neurobiology, Physiology, and Behavior

AS | Biology

Skills

Apparatus Sterilization Reagent and Media Prep Drosophila Population Maintenance Light Microscopy Precision Balance Measurements Volumetric Glassware Measurements Data Processing

Bilingual and Biliteracy in Spanish

HTML, CSS, JS, Python, R, Bash CLI Neuroimaging Machine Learning Frameworks High Resolution Mass Spectroscopy Liquid Chromatography Mass Spectroscopy Solid Phase Extraction UV-Vis IR Spectrometry Micropipetting

Professional Experience

Staff Research Associate

Duties included quantitative and qualitative review of volumetric measurements for quality, pathology, and prediction accuracy. Image processing involved manual segmentation for regions of interest aided by auto-segmentation algorithms and tuned machine learning models. Volumetric regions were then correlated with dementia and pathological aging. Extracted methods from source documents for research studies.

UC Davis, Imaging of Dementia and Alzheimer's Lab 2018-2021

Extraction Chemist

Preparation, extraction, and clean up of various environmental sample matrices using SPE, LCMS, and HRMS methods. Exercised independent judgment and discretion when working with unusual or complex sample matrices. Specialization in solid phase extraction (SPE), liquid chromatography mass spectroscopy (LCMS), high resolution mass spectroscopy (HRMS) extractions.

Vista Analytical Laboratory

2017 - 2018

Laboratory Technician Assistant

Maintained computer lab equipment and computer/calculator software. Maintained lab samples and specimens. Performed sample preparation, daily calibrations, and quality control experiments as needed. Maintained non-consignment laboratory supplies and chemical reagents.

SRJC Mrak Labs

2015

Projects

AAIC 2020 Conference Speaker "Towards a Generalized Deep Learning Framework for Production Scale 2020

CalSERVES AmeriCorps

Segmentation of Brain Structures"

ESL Mentor 2014

CMC3 Conference Speaker

"Fast Fourier Analysis of Debussy's Claire de Lune"

2013