

Christian Tran

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WORK EXPERIENCE

Application Programmer

March 2020 – Present

University of California - San Francisco

Remote

- Built out several NIH funded websites and feature implementation on other UCSF websites.
- Implemented various desired features such as commerce handling, data storage, and laboratory management.
- Created several automated workflow deployments for UCSF IT website.

Junior Specialist

June 2019 – March 2020

University of California - San Francisco

San Francisco, CA

- Library preparation and analysis of pooled and arrayed lentiviral library screens using Python and Bash.
- Produced protocols for experimental automation on OpenTron OT-2 platform.
- Improved lentiviral library screen pipeline through automation or optimization.

Lab Technician

June 2017 – May 2019

University of California - Merced

Merced, CA

- Assisted in standard sample preparation, instrument operation, and data analysis relating to lab operation
- Perform environmental sample analysis using a variety of instrumentation housed in the EAL such as Ion Chromatography, Water Stable Isotope Analyzer, etc
- Methyl-Hg and Total-Hg content analysis and oxygen-free treatment (glove chamber) on various samples such as bark, fish, sediment, etc.

RESEARCH EXPERIENCE

Researcher

March 2018 – May 2019

University of California - Merced

Merced, CA

- Improved pulling and cleaning biological data from NCBI/Genbank and various genomic databases.
- In charge of cleaning and analyzing biological data via BLAST, gene alignment, and BioPython
- Developed stochastic models for aaRS-tRNA networks utilizing HPC such as SLURM and SGE.

Research Assistant

December 2016 – May 2019

University of California - Merced

Merced, CA

- Analyzed TiO₂ and CeO₂ nanoparticle negative effects on airway mucus secretion
- Responsible for passaging various bacteria, diatom, and trachea cell lines along with medium fabrication.
- Used AutoHot to automate click-intensive nanoparticle analysis.

Lab Assistant

January 2016 – December 2017

University of California - Merced

Merced, CA

- In charge of training R-CNN deep learning object detection with ImageNet.
- Assisted in the creation of a water leak detection model with the use of Python and Matlab.
- Responsible for reporting water leaks detected from the image processing system.

EDUCATION

University of California - Merced

Merced, Ca

Bachelor of Science, Biological Engineering

August 2015- May 2019

TECHNICAL SKILLS

Programming Languages: Python, Javascript, PHP, Java, HTML, CSS

Frameworks: Drupal, jQuery, Symfony, Bootstrap, React, Angular, Node.js