maria.chavez@berkeley.edu
+1 (415) 549-6801 or +502 4216-5590

Maria Teresa Chavez

Education

- Intended Computer Science and Math UC Berkeley (2015-2019)
- Beach High School (2014). GPA = 4.0/4.0
- Non matriculating student UCSF, Stanford (2013-2014)
- Medical School, Universidad Francisco Marroquin (2013)

Experience

- Intern at Perlstein Lab (2014 - present) Am working on chemical modifier screens in yeast models of ALS and trying to figure out if mutations are in more conserved amino acids.
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- Intern at Genedrop (2014) Genedrop is a bay area based company doing bioinformatics. I'm currently working on exome sequencing analysis and pathway analysis.
- Intern at Transcriptic (2014) Transcriptic is building a revolutionary laboratory virtualization platform: "cloud computing" for the life sciences. I assisted with cloning experiments and genotyping.
- Thiel Fellowship Finalist (2014) My project proposal focused on identifying patient-specific RNA editing events in post mortem tissue and iPSCs from patients with ALS, and use CRISPR to try to identify the functional effect.
- Member of the ALS Consortium For Epidemiological Studies, Stanford University (2013 – present)
- Volunteer at the Baranzini Lab, UCSF (2013-2014) The Baranzini lab is interested in the genetics and molecular mechanisms underlying complex diseases, especially Multiple Sclerosis. I worked on the MS microbiome project; and also helped out with genotyping, and blood analysis.
- Member of the Guatemala IMO team, Universidad del Valle (2012- 2013)
- Other projects
    - On December 2013 I created a diseasome, which is a network of diseases proximal to a disease of interest based on shared genes. I mapped that information to FDA approved drugs to find drugs that could be candidates for repositioning. Everything was coded on python
    - I got a micro-grant from the Thiel Foundation to work on a bioinformatics project to identify influential genes using text mining and page rank

Relevant Coursework

- Biology: Structure of macromolecules (UCSF), Principles in molecular genetics (UCSF), Biological regulatory mechanisms (UCSF), Developmental and stem cell biology (UCSF),
- Mathematics: Groups and rings (Stanford), multivariate calculus (UFM), Statistics and mathematical models (UFM),
- Computer Science: Mathematical foundations of computing (Stanford), programming methodologies (Stanford), programming abstractions (Stanford), translational bioinformatics (Stanford),