

Acevedo Munares, Gabriela

A B.S. Bioengineering graduate with experience working in both wet and dry labs. Currently working in Dr. Patrick Journey's Biological Fluids and Interfaces Lab exploring endothelial cells in microfluidic devices.

EXPERIENCE

Smith-Kettlewell Eye Research Institute, San Francisco — *Research Assistant*

MARCH 2019 - PRESENT

- Used high density EEG and psychophysics to study brain plasticity and the visual cortex of adults with amblyopia and strabismus
- Collected neural data using 128-channel nets with EGI NetStation and xDiva programs during a psychophysics experiment (binocular rivalry)
- Processed VEP data in Matlab and created publication-ready figures
- Compiled and organized large data sets across participants and built models using Weibull fit
- Recruitment and scheduling of participants and patients
- Research culminated in VSS poster 2020 and manuscript

Doudna (CRISPR) Lab, UC Berkeley — *Undergraduate Researcher*

DECEMBER 2015 - DECEMBER 2017

- Helped in finding a mechanism to bring Cas9 across the blood-brain barrier and edit the neurons using a tdTomato locus and transgenic Huntington disease mice models.
- Contributed to tissue microscopy, photo analysis, tissue cultures, gel electrophoresis, PCRs, genotyping, and protein purification
- Projects in histology, immunohistochemistry, and behavioral analysis of the different models of mice.

Arkin Lab, UC Berkeley — *Undergraduate Internship*

JUNE 2016 - AUGUST 2016

- Sequenced bacteria and their interactions with *A. thaliana*
- Grew different types of bacteria on *A. thaliana* plants.
- Compared different media for optimum plant and bacterial growth.
- Gained experience using R language to organize sequenced genes and their functions.

Chemistry Stockroom, San Joaquin Delta College — *Chemistry Assistant*

AUGUST 2014 - MAY 2015

- Set up labs for all chemistry classes (introduction, general, organic and inorganic)
- Prepared solutions and appropriately disposed of chemicals
- Cleaned lab equipment.

EDUCATION

University of California, Berkeley, CA — *B.S. Bioengineering*

AUGUST 2015 - MAY 2018

Emphasis in cell and tissue engineering

San Joaquin Delta College, Stockton, CA — *A.S. Mathematics, A.S. Physics*

AUGUST 2011 - MAY 2015

High Honors

PUBLICATIONS

Nature Biotechnology

Staahl, B., Benekareddy, M., Coulon-Bainier, C., Acevedo Munares, G., et al. Efficient genome editing in the mouse brain by local delivery of engineered Cas9 ribonucleoprotein complexes. *Nat Biotechnol* 35, 431–434 (2017). <https://doi.org/10.1038/nbt.3806>

Manuscript in Preparation

High-attention training in adults with amblyopia enhances their contrast sensitivity

SKILLS

EEG Preprocessing

High density EEG

Psychophysics

Data Processing

Matlab - moderate

Microsoft Office Suite

Wet lab skills:

- Tissue sectioning – cryostat, microtome, compresstome

- Cell & Tissue culture

- Media preparation and bacteria cultivation

- Genotyping

- Protein purification

- PCR

- RNA preparation

- Immunohistochemistry

- In vitro transcription

Organized

Detail-oriented

LANGUAGES

Fluent in English

Fluent in Spanish

