

# Pranav Akella

Phone: (408) 832-0067 | Email: pranav.97@gmail.com | LinkedIn: [/pranav-akella](#)

## EXPERIENCE

### Manufacturing Associate — *BioLegend Inc.*

February 2020 - PRESENT

- Conjugated and processed IgG1 antibodies, IgG2a antibodies, and Streptavidin to Brilliant Violet dye using size exclusion chromatography.
- Redesigned and optimized a prototype manufacturing process automation machine.

### Associate Medical Writer — *Samorn Biosciences Inc.*

July 2019 - January 2020

- Conducted competitive intelligence on medical industry products for pharmaceutical companies.
- Led ClinicalTrials.gov project to register clinical trials and publish results in compliance with NIH regulations.
- Implemented Python I/O and file handling methods to identify relevant abstracts for literature searches.

### Student Researcher — *Cartilage Tissue Engineering- Sah Lab, UCSD*

September 2018 - June 2019

- Designed and built a bioreactor as a tool for research on the physis (growth plate).
  - Designed parts using SolidWorks and hand-drawn 3-D models to design and assemble the bioreactor.
  - Planned, performed, and documented biological experiments geared toward developing the bioreactor.
  - Developed a bioreactor that will grow physal tissue and apply mechanical and chemical stimuli to it.

### Research Assistant — *Preventative and Restorative Dental Science- Ho Lab, UCSF*

June 2016 - June 2019

- Researched the entheses near the temporomandibular joint of a mouse.
- Researched the effect of orthodontic tooth translation on the overall biomechanics of the jaw of human subjects using motion capture imaging.
- Researched the effect of diet on how the dentoalveolar joint remodels while under the influence of orthodontic induced tooth movement using Avizo 3D Modeling Software.

## RESEARCH

- Akella P, Kang M, Chan K, Samaan M, Jheon A, Souza R, Kapila S, Ho S. "Correlating Jaw and Tooth Movements using Optical Tracking and X-ray CT Technologies." *AADR Annual Meeting*, 0185, 2018.
  - Delivered an oral/podium presentation at the American Association for Dental Research (AADR) Annual Meeting in 2018 while researching under Dr. Sunita Ho in UCSF.

## SKILLS

### Project Management

Smartsheet

### Computer Skills

**Programming Languages:** Python, Java, MATLAB, LabVIEW

**Software Skills:** SolidWorks, Avizo 3D Modeling Software, DataViewer, Microsoft Office

### Laboratory Skills

**Molecular Biology Skills:** Gel electrophoresis, PCR, protein purification methods, bacterial transformations, SDS-PAGE, DNA/RNA extraction and purification, mammalian cell and tissue culture, DNA and protein transfections, CRISPR-Cas9 for high throughput screening

**Imaging Skills:** X-ray computed tomography imaging, motion capture imaging, light and fluorescent microscopy

## EDUCATION

**University of California, San Diego** – *B.S. Bioengineering: Biotechnology*

**June 2019**