

# Adrian Szeto

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## WORK EXPERIENCE

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### University of the Pacific

Jan 2020 – May 2021

*Undergraduate Research Assistant*

*Stockton, CA*

- Assisted research on antimicrobial assay development and isolation of antimicrobial compounds from Actinomycetes.
- Proficient in working with bacteria and in performing inoculation, disc assays, growth inhibition disc diffusion assay, 96 well plate serial dilution assays, and liquid-liquid partitions.
- Compiled and analyzed data to help further progress potential compounds for the development of antibiotics.
- Prepared a Biosafety Cabinet protocol outline for future reference.
- Organized Mass Spectrometry data for Caulerpa and Cyanobacteria metabolites

### Analytical Chemistry Laboratory

Aug 2019 – Dec 2019

*Undergraduate Student*

*Stockton, CA*

- Performed gravimetric analysis on iron as ferric oxide.
- Standardized hydrochloric acid and sodium hydroxide for future experiments.
- Quantification of caffeine and theobromine concentrations in chocolate using Waters High Performance Liquid Chromatography (HPLC).

### Sutter Medical Center Sacramento Medical ICU

Aug 2019 – Nov 2019

*Volunteer*

*Sacramento, CA*

- Communicated patients' needs to nurse and acted as liaison for healthcare team.
- Cleaned patient space and equipment, prepared beds, restocked lab supplies.
- Took phone orders from doctors and ensured delivery to correct location.
- Gained experience working under time constraints.

### Genetics Laboratory

Jan 2019 – April 2019

*Undergraduate Student*

*Stockton, CA*

- Worked with a black widow spider gene that encodes “minifibronin” protein so that we may research a way in synthesizing and commercializing the Major Ampullate Spidroin 1 (MaSp1) protein found in the dragline silk.
- Performed Polymerase Chain Reaction (PCR) to amplify the MaSp1 gene.
- Carried out restriction digest, agarose gel electrophoresis, gel purification, ligation, and transformation to have the host bacteria, Escherichia coli, express our gene of interest.
- Performed SDS-PAGE and Western Blot for protein purification and analysis.

## EDUCATION

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### University of the Pacific

May 2021

*BS, Biochemistry*

*Stockton, CA*

**Relevant Courses:** Organic Chemistry, Analytical Chemistry, Biochemistry, Biochemistry Laboratory, Intro to Molecular Simulations, Genetics, Anatomy, Histology, Cancer Biology, and Microbiology

## SKILLS & INTERESTS

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- **Skills:** Proficient in Microsoft Excel; Detail oriented; MIC analysis; Exceptional time management; Quick to adapt to new working environment.
- **Interests:** Breakdance, piano, sketching, video editing, indoor bouldering, and Judo.