

ACADEMIC POSITIONS AND EDUCATION

Laboratory Teaching Assistant – General Chemistry I Sept. 2021- July 2022
Rutgers University, Newark NJ

M.S in Chemistry 2021 - Current (Expected 2023)
Rutgers University, Newark NJ

B.S in Molecular Biology, **Minor** in Chemistry 2015 - 2019
Montclair State University, Montclair NJ

Army ROTC Program in Military Science 2015 - 2019
Seton Hall University, South Orange NJ

- Current Commissioned Infantry Officer (Airborne Ranger, Army Mountaineer, and Scout PLT Leader)

AWARDS AND HONORS

Recognized for the “Promotion of Research in Science” 2019
(Montclair State University – SIGMA XI; Research Honor Society)

RESEARCH EXPERIENCE

Student Researcher; Montclair State University 2017 - 2019
Research Supervisor: Dr. Jennifer Adams Krumins

Project: Effect of Moisture on Plant Growth and Enzyme Activity in Heavy Metal Contaminated Soils

- Acquired two different soil samples (146 and 25R) from Liberty State Park, Jersey City NJ.
- Conducted DNA Extraction to understand soil compositions.
- Performed Phosphatase analysis on soil samples to determine enzymatic activity.
- AODC enumeration to determine viability of control samples after autoclaving.
- Harvested plants within a refrigerator with varying temperatures and humidity's to monitor plant growth.

LABORATORY SKILLS

Experimental: Phosphatase Analysis, Titration, Agarose gel electrophoresis, DNA Purification and Extraction, PCR, AODC, Immunofluorescence Assay.

Instrumentation: LCMS, Autoclaving, Micro-pipetting, AFM, Water and High Frequency Ultrasonics Baths, Laboratory Oven.

GRADUATE COURSEWORK

Completed: Principles of Organic Reactions & Mechs and Crystal & Molecular Structures I. Hybrid Biomaterials and Biophysical Chemistry.

In Progress: Chem. Of Heterocycle Compounds and Physical Chemistry (Computational)

UNDERGRADUATE COURSEWORK

Chemistry: General Chemistry I & II, Organic Chemistry I & II, Experimental Organic Chemistry I & II, Descriptive Inorganic Chemistry, Biochemistry I & II.

Biology: Principles of Biology I & II, Cell and Molecular Biology, Microbiology, Genetics, Independent Research, Virology, Molecular Biology, Genomics, Research Community: Organism Biology.

Mathematics: Applied Precalculus, Statistics for Biological Sciences, Calculus A

Other: Physics I and Physics II