

SAMPSON BERLINSKI

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📍 Massachusetts

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☎ 631-838-8392

EDUCATION

Stony Brook University

B.S. Chemistry

📅 Aug 2017 – May 2021

📍 Stony Brook, NY

- Environmental Chemistry Concentration

EXPERIENCE

Rentschler Biopharma

Quality Control Analyst I: Raw Materials

📅 June 2021 – Present

📍 Milford, MA

- Quality testing of all incoming materials for manufacturing process, as well as select testing of in-process and final drug product samples and stability program.
- Managed and delegated testing for priority materials in a fast paced, cGMP environment.
- Performed testing in accordance with FDA validated procedures, including compendial testing per USP-NF/EP guidelines.

Institute of Gas Innovation and Technology

Research Intern

📅 June 2019 – Present

📍 Stony Brook, NY

- Performed scale-up and testing of waste-water treatment reactor using propane clathrate-hydrate pathway.
- Tested effects of agitation, surface tension,
- Tested novel method for removing sulfur impurities from a methanol stream, through sonolysis with iron carbonyl precursor.
- Ran gas chromatography on clean solution in conjunction with FT-IR and SEM-EDS of extracted solids to determine resulting purity.

Stem Cell Engineering : Interdisciplinary Project

Project Member

📅 January 2019 – February 2020

- Tested effects of shear stress of bioprinting on the structure, function, and survival of skin organotypics, including dermal and epidermal equivalents.
- Studied efficacy of embedding structures in a collagen scaffold to instigate growth of dermal fibroblasts.
- Fed cell cultures, operated cell-ink bioprinters, and cut and plated grafted cross-sections, within biosafety Level 2 environment.

Undergraduate Student Government

Assistant Treasurer

📅 August 2020 – Present

📍 Stony Brook University

- Work as part of a small team in managing and allocating an annual budget of over \$3 million, and pursued several projects independent of job duties:

TECHNICAL SKILLS

Python

MatLab

LabView

Excel

GC-FID

FT-IR

Osmolality

Karl Fischer Titration

Environmental Monitoring

TOC

UV-Vis

COURSEWORK

Lab Courses

- Spectroscopic & Synthetic Techniques Lab
FT-IR, H-NMR, C-NMR, C-APT/DEPT, flash/column chromatography
- Solutions Chemistry Lab
UV-vis, advanced synthetic methods / calorimetry / kinetics
- Chemical Instrumentation Lab
data aq., MatLab
- Organic Chemistry Lab
roto-vap, distillation, reflux, TLC
- Molecular Structure and Spectroscopy Lab
crystal XRD, GC-MS, Raman Spec., emissions Spectra
- General Chemistry I + II Labs
titration, filtration methods

Graduate Courses

- Organic Structures and Reactivity
- Transition Metal Chemistry

Other Relevant Courses

- Physical Chemistry I + II
- Air Pollution and Its Control

EXTRACURRICULAR

Stony Brook Rowing

📅 August 2018 – August 2020

- Served as Treasurer for the 2018-19 and 2019-2020 academic years.
- Coordinated with student government and administration, local businesses, and other universities.
- Incorporated the team, established non-for-profit under New York State, as well as independent bank accounts, financial systems and records.

PERSONAL PROJECTS


Venmo Web-Scraping

- Developing a web-scraping program through Python to extract and organize Venmo transactions from web client.

- Developed public storage and pantry for organizations to reduce overall waste.
 - Automated budget work, reworked student organization bank accounts and financial guidelines.
 - Organized program to install dispensers and provide free menstrual hygiene products to students on campus, and provided plans to expand the project in the future.
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Stony Brook University Writing Center

Tutor

 August 2018 – December 2019

- Tutored students at a variety of different skill levels and disciplines.
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