SAMPSON BERLINSKI

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EDUCATION

Stony Brook University
B.S. Chemistry

📅 Aug 2017 – May 2021   ⚲ Stony Brook, NY

- Environmental Chemistry Concentration

EXPERIENCE

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:
- 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.

Stony Brook University Writing Center
Tutor

📅 August 2018 – December 2019

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

TECHNICAL SKILLS

Python   MatLab   LabView   Excel/Sheets   GC-FID   FT-IR

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.