

Ethan Bober

ebober@sas.upenn.edu • (954) 982-1449 • Philadelphia, PA

EDUCATION

University of Pennsylvania, College of Arts and Sciences, Philadelphia, PA

May 2027

Candidate for Bachelor of Arts in Chemistry

GPA: 3.85/4.0

RESEARCH EXPERIENCE

Laboratory Assistant, Philadelphia, PA

Department of Chemistry, University of Pennsylvania

October 2023 – Present

- Assist in research of photo-catalytic water-splitting by using MDESA
- Aid in the synthesis of MDESA for comparison against alternative photo-catalysts

Computational Research, RISE Program, Boston, MA

Department of Chemistry, Boston University

June – August 2022

- Worked under the Coker Group researching structure-function relationships present in room temperature ionic liquids.
- Computed and compiled trajectories of ionic liquids using the Shared Computer Cluster (SCC)
- Prepared analysis of data and graph comparisons of different ionic liquids

Student Researcher, MathExpLR, Irvine, CA

University of California Irvine

June – July 2021

- Investigated oncogenic transcription factor protein dimerization and diffusional search along DNA
- Constructed coarse-grained model of proteins travel in the nucleus

LEADERSHIP & ADDITIONAL EXPERIENCE

Lead Organizer, Hollywood, FL

Sea Level Rise Solutions

August 2019 – May 2022

- Hosted/moderated webinars with about 100 attendees
- Organized King Tide educational events attended by above 75 students and community members regarding the impact of sea level rise in South Florida
- Youth Voice Speaker at 2022 Southeast Regional Climate Leadership Summit

Chief Science STEM Officer, Broward County, FL

Chief Science Officers Program

September 2021 – May 2022

- Structured a STEM action plan to increase overall STEM opportunities in my school
- Collaborated with students and industry STEM leaders around the county to increase STEM representation

SKILLS & INTERESTS

- Proficient in JavaScript, Python, MATLAB, C++, and LAMMPS
- Robotics Education & Competition Foundation Certification in the disciplines of Programming, Mechanical, and Electrical