

Yana Eber

Brooklyn, NY +1 (929) 233-6634 yanaeber@yahoo.com

EDUCATION

Yale University, New Haven, CT

Major: Chemical Engineering, B.S ABET degree

Expected Graduation: 2027

GPA: 3.9

PROFESSIONAL & LEADERSHIP EXPERIENCE

Princeton Plasma Physics Laboratory, Princeton, NJ

Research Intern

June 2023-December 2023

- Conducted research on LAMMPS molecular dynamics simulation of a boron-carbon interaction inside the divertor of a tokamak machine with Blender
- Created animations in Blender using python script and coding inside Blender to extract data from LAMMPS files, and experimented with Blender features
- Presented work in a research presentation, guided mentors on Blender mechanics

New York University Tandon School of Engineering, Brooklyn, NY

Applied Research Innovations in Science and Engineering Intern

June 2022- August 2022

- Conducted hands-on research at the Transformative Materials and Devices Laboratory on perovskite solar panels and plastic degradation technology
- Worked with research technology such as a glove box, high-performance liquid chromatography, and mass spectrometry
- Created a research poster and presented it at the internship's symposium

Intrepid Museum Education Department, New York, NY

GOALS Navigator Intern

October 2021- June 2022

- Created technology and climate-related presentations and workshops for middle and elementary school students at the Intrepid Museum with 700 attendees
- Collaborated with other interns and mentors to help the museum with educational STEM events

Pioneer Academics

Researcher

June 2022-present

- Researched and wrote a paper on peatland restoration in Belarus with Professor James R. Kahn.
- Engaged in class discussions, gave peer review feedback, and participated in discussions with classmates
- Volunteered to mentor and facilitate student information sessions and research workshops as program alumnus

ACE Mentorship Program, New York, NY

Mentee

October 2021- May 2023

- Learned about various engineering and architecture disciplines, toured engineering and architecture workplaces
- Practiced group work, drafting, and brainstorming skills when creating the final group project, involving designing an innovative sustainable school in Staten Island with domed roofs and hexagonal structure to promote student creativity.
- Presented final project in a formal group presentation to AECOM employees

SKILLS & RELEVANT COURSEWORK

Programming: C, C++, Bash Shell, MATLAB, Python

Spanish: Advanced Proficiency

Russian: Native Proficiency

Engineering: Adobe AutoCAD

Classes:

- PLTW Sustainable Development
- Multivariable Calculus for Engineers
- General Chemistry and Laboratory