Yana Eber

+1 (929)-233-6634| yana.eber@yale.edu | https://www.linkedin.com/in/yana-eber/

EDUCATION

Yale University, New Haven, CT Aug 2023- May 2027
Major: ABET Chemical Engineering, Minor in Spanish **GPA:** 3.9
Activities: The Yale Chapter of the American Institute for Chemical Engineers, Yale Engineers Without Borders

Relevant Coursework: Materials Science, Differential Equations, Introduction to Computing, Thermodynamics, Water-Energy Nexus, Linear Algebra, Organic Chemistry & Laboratory, Transport Phenomena

WORK EXPERIENCE

Green Innovator Cohort Coordinator, Tsai CITY (New Haven, CT) Sep 2025 - present

- Organized and led dinners, tours, and conference events for a 30-student cohort interested in climate innovation
- Mentored students on possible career paths, networking strategies, and opportunities in climate technology
- Maintained and updated database of 200+ Yale-connected climate startups

Materials Engineer, Verustruct (New Haven, CT) Jan 2025 - present

- Spearheaded materials research and development for Verustruct, a startup designing sustainable and affordable 3D-printed houses to serve local communities
- Researched and engaged sustainable concrete and building material manufacturers for collaboration
- Tested compression, tension, clump retention, and printer compatibility of concrete mixtures and admixtures, and analyzed concrete mixing and delivery on the job site
- Collaborated on startup goals, funding, and next steps with an interdisciplinary engineering team

Chemical Engineering Intern- Envision Energy (Burlington, MA) May 2025 - Aug 2025

- Assembled, tested, and analyzed Proton Exchange Membrane Water Electrolysis Cells for green hydrogen
- Optimized and performed troubleshooting of test cell stations and membrane pinhole detection procedure
- Evaluated membrane degradation using accelerated stress tests and Fenton's reaction, providing data that informed membrane selection for scale-up
- Presented results in weekly team meetings and the final intern presentation, contributing to decisions on cell component selection for large-scale assembly

Research Intern - Winter Lab (New Haven, CT) May 2024 - present

- Designed laboratory procedure to analyze the electrochemical activity of copper nanoparticle loading on cathode electrodes for plasma-induced electrochemical carbon dioxide reduction
- Prepared electrodes and performed lab-scale combined plasma-electrochemical experiments
- Devised an operating procedure for applying electron paramagnetic resonance spectra analysis to assess plasma-water interactions and pair with gas chromatography data to analyze the reaction pathway of the system
- Presented research at the American Institute of Chemical Engineers Annual Student Conference and competed in the poster session

EXTRACURRICULAR EXPERIENCE

Treasurer, Students for Carbon Dividends (New Haven, CT) Sep 2023 - present

- Contacted and held meetings with over 20 members of Congress and non-profit organizations in Washington, D.C. and Hartford for support of bipartisan climate legislation
- Researched federal and state policy to determine effective bipartisan climate bills
- Organized a fundraiser that raised $2,000 for a 2025 student-led lobbying trip
- Received 100 signatures from all 50 states on a petition in support of bipartisan climate legislation

SKILLS

Laboratory Techniques: Potentiostat, Gas Chromatography, Nuclear Magnetic Resonance, Ion Chromatography
Technical Skills: Microsoft Office, C++, C, MATLAB, Python, Autodesk AutoCAD, ArcGIS, Blender, GraphPad Prism
Languages: English (fluent), Russian (fluent), Spanish (advanced), Belarusian (advanced)