

Daniel Raynor ❖ (631) 566-6504 ❖ daniel.raynor@yale.edu
 Permanent Address: 2047 Roanoke Ave, Riverhead, NY 11901

Education:

- Yale University**, New Haven, NY *Expected May 2017*
- B.S. Major in Environmental Engineering, Multidisciplinary Academic Program in Energy Studies
 - GPA: 3.75/4.00
 - *Relevant Coursework:* Intro to Environmental Engineering • Air Pollution Control • Water Quality Control • Environmental Transport Processes • Multivariable Calculus • Differential Equations • General Chemistry w/Lab • Biochemistry & Biophysics • Cell Biology • Engineering, Innovation, & Design • Green Engineering & Sustainable Design • Renewable Energy • Chemical Engineering Thermodynamics • Fluid Mechanics • Water Chemistry • Environmental Technology in the Developing World
- DIS: Danish Institute for Study Abroad**, Copenhagen, Denmark *Fall 2015*
- Sustainable Development in Northern Europe • Renewable Energy Systems • Sustainable Danish Fashion
- The GREEN Program: Water Resource Management**, Cusco, Peru *Winter 2016*
- Outside Coursework:** Linear Algebra (Stony Brook University); Economics (Syracuse University)
- Riverhead High School**, Riverhead, NY *Graduated June 2013*
- Advanced Regents Diploma with Honors, Valedictorian. Class rank: 1 of 315. GPA: 109.53/100. ACT: 35.

Work Experience:

- Research: Hydrogen Peroxide as a Sustainable Fuel Source**, New Haven, CT *Spring 2017*
- I am currently working on a research project between the Yale School of Engineering and the Yale School of Forestry, performing a life cycle assessment on H₂O₂ and its energy output and environmental impacts.
- National Science Foundation-REU: The Value of Snow**, Reno, NV *Summer 2016*
- Studied climate change in relation to water resource management issues under the research topic "Quantifying Contributions of Snow-fed Rivers to Water Resources of Large Cities in the Western U.S." In this summer research experience in natural resource issues in the Sierra Nevada Great Basin Region, I formulated three research questions, collected data from open-source web resources, and analyzed this data in such programs as Python and ArcGIS. I worked independently, ultimately presenting my findings at a poster symposium and in a published scientific paper.
- Renewable Energy Alaska Project (REAP)**, Anchorage, AK *Summer 2015*
- Interned with REAP, a state-wide nonprofit coalition of over seventy organizations facilitating the development of renewable energy in Alaska through collaboration, education, training, and advocacy. I worked on data collection, analysis and presentation; communications and media outreach; event planning; and energy efficiency programs with rural indigenous Alaskan communities.
- Yale University Admissions Office**, New Haven, CT *2014-2015*
- *Yale Engineering Tour Guide:* Lead tours for visitors and prospective students, explaining life as an engineer at Yale and exploring Yale engineering facilities
- Association of Yale Alumni**, New Haven, CT *2013-2014*
- *Head Reunion Clerk:* Preparing for and working reunions; communications and outreach with alumni; facilitating an enjoyable weekend for alum; a unique customer service experience
- Brookhaven National Laboratory**, Brookhaven, NY *Summer 2013*
- Interned in the optics laboratory exploring the properties of light; worked independently, studying laser beam reflection patterns through a series of photodetectors, to be installed in the Large Synoptic Survey Telescope (LSST) in Chile

College Activities:

- Engineers Without Borders (EWB)** *2014-present*
- Work as a member of Yale EWB's health team to engineer a clean, efficient water system for developing communities in Cameroon while educating the communities in proper preventive health measures

Languages, Skills, & Interests:

- *Languages:* English, Danish (intermediate)
- *Skills:* Microsoft Office Word/Excel/PowerPoint (expert) • GIS (intermediate) • Python (beginner) • CAD (SolidWorks) (intermediate) • Adobe Photoshop • exposure to Outlook and Canvas • public speaking • superior organizational skills and dedication to all projects • self-motivation and flexibility in my work
- *Interests:* Renewable energy, water resource management, sustainability, urban planning and livability, cultural studies, traveling, hiking, volleyball & swimming