

Undergraduates Seeking Internships

MIELA BAROCAS MAYER

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EDUCATION

Yale University, New Haven CT

Bachelor of Science Expected: May 2018

Double Major in Environmental Studies and Environmental Engineering

Energy Studies Scholar, *Yale Climate and Energy Institute*; selective intensive study program with capstone project

- **Relevant Coursework:** *Graduate:* Economics of Natural Resources; Renewable Energy Project Finance; COP21-GHG Reduction Policy; Climate & Energy; Accounting & Valuation | *Undergraduate:* Microeconomics; Statistics; Fossil Fuels & Energy Transitions
- **Recognitions:** Amy Rosenberg Fellowship for projects bettering New Haven | Environmental Studies Advisory Board

Wilbur Cross High School, New Haven CT

Graduation: May 2014

- **GPA:** 5/5 | Hopkins Field Hockey Team Captain | Hopkins Varsity Lacrosse | EMT Class President
- **Awards:** UNH Outstanding Senior; 3 CT State Citations for Artistic Talent; Photo District News Award of Excellence

WORK EXPERIENCE

UN Framework Convention on Climate Change; *Carbon Institute Data Analyst at COP22, Morocco*

November 2016

- One of two Yale undergraduates selected to attend the 22nd Conference of the Parties. Collaborated with ParisAgreement.org, a non-profit media startup, to develop open source, interactive, online visuals tracking negotiation progress on 34 mandates
- Increased transparency of UNFCCC negotiations and catalyzed implementation of agreement goals through collecting and systemizing data on policy positions of signatory countries
- Managed ParisAgreement.org's Twitter, publishing real-time updates that contextualized and simplified findings to 6,000+ followers

Analytical & Stable Isotope Center, Micropaleontology; *Lab Intern for Climate Research*

June 2016 – Present

- Spearheaded independent study investigating constraints of climate models' future temperature change projections
- Analyzed carbonate clumped isotopes in Planktonic Foraminifera as a proxy for past sea surface temperatures

New Haven Climate Action Plan; *Head of Land & Transportation Taskforce*

February 2016 – Present

- Calculated new reduction targets with the Department of Engineering and inventoried past greenhouse gas emissions
- Drafted implementation framework for cost-effective reduction of New Haven's emissions to 20% below 2010 levels

Yale West Campus Botanical Research Center; *Engineering Fellow, Core Management Team*

January 2015 – May 2016

- Responsible for the proposal, creation, and management of experimental engineering initiatives implemented on site with global applications such as developing an evaporative cooling room that reduced energy use by 48%
- Co-authored a 75-page multi-project report and 5-year enactment plan for transition into a botanical research center

Brooklyn Hydroponics, Teens for Food Justice Program; *Technical Consultant*

December 2015 – March 2015

- Advised on strategic initiatives for expanding afterschool urban agriculture curriculum to other NYC schools and hospitals
- Prepared cost projections and digital designs for the inclusion of Green Wall, Rooftop, and Vertical farm practices at each site

ACTIVITIES & LEADERSHIP

Carbon Charge Project; *Undergraduate Taskforce Representative*

October 2016 – Present

- Pitched revenue-neutral initiative to faculty committee and collaborated with outside professionals and graduates at the Schools of Forestry and Management to make Yale the first university to implement a comprehensive internal carbon charge
- Test and evaluate effectiveness of multiple economic models for carbon pricing during 6-month pilot to inform energy policy
- Calculate charge and potential rebate based on collected 3-year baseline emissions dataset for 240 participating buildings
- Publish and administer monthly energy bill that includes a \$40/MT social cost of carbon to building's decision makers

Yale Outdoors Organization; *Executive Board Member & Student Expedition Leader*

January 2015 – Present

- Organized two-week long Wilderness First Responder classes, resulting in the certification of 23 new leaders
- Budgeted the organization's funds and obtained grants to ensure equal opportunity through financial aid for courses
- Trained 30+ students in technical workshops on skills such as navigation, climbing knots, and community facilitation

Yale Drama Collation; *Set Designer*

September 2014 – Present

- Conceptualized, digitized with SketchUp, and assembled the set of *Swamplandia*, a musical on an Amazonian island
- Developed a modular and functional water piping system for an alternative take on the "underworld" in the play *Eurydice*
- Negotiated approval for flowing water on stage, assembled and supervised the 15-person tech team required for construction

SKILLS, INTERESTS & CERTIFICATIONS:

Computer (not exhaustive): Microsoft Excel, Word, PowerPoint; R; SAS; SPSS; PhotoShop; Lightroom; Minitab; Isodat Acquisition; SketchUp; SolidWorks; Zotero; Web Design | **Laboratory:** Mass Spectrometry; Gas chromatography (Trace GC Ultra); Genotyping; PCR; gel electrophoresis; paraffin fixation; antibody preparation; proton NMR; alkaline phosphate tissue staining
Language: English (*fluent*); Spanish (*proficient*) **Interests:** Sustainable Food & Agriculture, Technology, Climbing, Yale Fence Club
Certifications: EMT; NAUI Master Diver; PADI Rescue Diver, Nitrox, Underwater Ecologist; Piloting License (35/40 flight hours)