

Builders Beyond Borders

Norwalk, CT

Advisor

2013-2015

- Managed and performed crisis management of 30-40 high school students at 8 public service and meeting events locally and 10 days in Dominican Republic building a health center and Guatemala building a school with locals, in a team of 5 adults
- Successfully ushered 8 high school students into and out of the US on two separate occasions, without losing a passport
- Administered first-aid for minor injuries on worksite
- Aided in mixing and pouring cement, laying bricks, collecting sand and digging trenches for the health center and school
- Participated in 6 hours of community service in Fairfield County
- Raised \$600 each year

Fulbright Fellow

Greater Accra, Ghana

Implementation of Community Participatory Water Treatment Systems

2009-2010

- Engaged with local communities, conducted informal interviews, facilitated focus group discussions, collected health records and performed water tests
- Secured data from municipalities to investigate the current piped and well water situation in urban community
- Implemented sustainable water treatment system in rural village and peri-urban community
- 6 years later water treatment systems are still effective and have expanded to additional neighboring communities
- Aided in establishment of local NGO that is still flourishing
- Project results were accepted for presentation at the University of Oklahoma International Water Conference 2012 and University of North Carolina Public Health Conference 2014

Occidental College, World Water Forum Grant Recipient

Paris, France & Bamako, Mali

Solar Powered Water Filtration System

2007-2009

- Wrote sections of and secured World Water Forum grant
- Designed and built model of existing membrane filtration system
- Installed system in Bamako, Mali,
- Tested efficiency and efficacy of system with attached solar panels
- Headed group of 3 students for project

ACADEMIC EXPERIENCE**Yale University, Department of Chemical and Environmental Engineering**

New Haven, CT

Laboratory Mentor

2013-Present

- Supervise and direct 5 undergraduate students across 5 years in laboratory techniques and experiments
- Design projects, deliverables, and goals
- Train students in laboratory techniques and critical thinking

Yale University, P.A.T.H.W.A.Y.S

New Haven, CT

Science Outreach coordinator and lecturer

2013-2016

- Organize and conducted more than 10 science demonstrations, courses, and events associated with water and green engineering for groups of 20-100 underprivileged middle and high school students
- Secure supplies, reserve rooms, and complete surveys

Yale University, Department of Biological and Biomedical Sciences

New Haven, CT

Scientific Teaching Course (BBS 879)

2016

- Participated in course on how to teach science using peer-reviewed techniques

Yale University, Green Engineering and Sustainable Design Course

New Haven, CT

Teaching Assistant

Spring 2013-2015

- Aided in course development, project design, homework and test design with 1-2 other TA's and 1-2 professors for a course of 35 students each year
- Instructed on sustainable design topics and conducted weekly office hours for 5 project design groups
- Arranged and guided class activities and discussion

RELEVANT SKILLS

Computer Skills: Proficient in Microsoft Office Suites, Igor Pro, Origin, Mathematica;
Competent in Demeter, WinXAS, MatLab, LabView, SPSS, EPANET;
Familiar with HEC-SSP, GIS, AutoCAD

Language: Working Proficiency in French;
Elementary Proficiency in Hindi