

TEACHING AND MENTORING EXPERIENCE

- Graduate Teaching Fellow: Environmental Technology for the Developing World** Spring 2015, 2016
Assisted in teaching ENVE 410, a senior-level undergraduate engineering course centered around planning and executing a week-long trip to rural communities in Nicaragua to analyze water and air quality, advise local non-governmental organizations on public health initiatives, and install water treatment systems.
- Advisor: Engineering Innovation & Design** Fall 2015
Worked with groups of freshmen in ENAS 118 to modify particulate matter monitoring units to be worn by women in Nicaragua during the spring 2016 ENVE 410 trip to more accurately quantify human exposure.
- Women in Science at Yale Graduate Student Mentor** 2015–present
Met regularly with female Yale undergraduates interested in STEM majors to give advice on choosing a major, balancing academics and extra-curricular activities, and navigating future graduate school and career options.
- Summer Science Research Institute Mentor** Summer 2014
Oversaw two students from local New Haven high schools in a study of water quality parameters and their significance. Supervised students' laboratory work and fieldwork analyzing local water quality.
- Yale Center for Teaching and Learning Workshop Series Participant** Spring 2015, Fall 2016
Four-week workshops: Fundamentals of Teaching in the Sciences, Diversity and Inclusion

LEADERSHIP AND OUTREACH EXPERIENCE

- Equity in the Job Search Departmental Seminar Organizing Committee** Spring 2017
Helped organize a one-day seminar on tools for navigating the barriers undermining women in STEM disciplines.
- Society of Women Engineers (SWE) Outreach Organizer and Volunteer** 2015–present
Worked with Yale's graduate chapter of SWE to run local outreach events designed to foster local female students' interest in STEM and to organize networking and professional development events on campus.
- New Haven Science Fair Judge** Spring 2014, 2015
- AEESP 2015 Conference Student Organizing Committee** Fall 2014–Summer 2015
Role: Technical program and printed media supervisor. Designed and executed the printed technical program distributed to over 500 conference attendees, as well as additional handouts and conference signage. Organized registration and other activities throughout the conference.
- Yale Graduate Student Recruitment Committee** Spring 2014
Part of a four-person committee selected by the department head to organize the visit of 11 prospective graduate students admitted to the program. Organized faculty meetings, laboratory visits, and social activities.
- Yale Pathways to Science Volunteer** Fall 2013–present
Volunteered for events welcoming new students from local public schools to the Pathways to Science program. Helped organize and run the program's Pathways to Engineering outreach day during the summer of 2014.

PRESENTATIONS

- "Triplet–triplet annihilation for semiconductor photocatalyst sensitization using sub-bandgap photons: Initial successes and applications in environmental remediation." *252nd ACS National Meeting*, Philadelphia, PA. Oral presentation. August 23, 2016.
- "Triplet–triplet annihilation upconversion in the aqueous and dry phases: Challenges, solutions, and more problems." *Pacificchem 2015*, Honolulu, HI. Oral presentation. December 15, 2015.
- "Dual-sensitizer triplet–triplet annihilation upconversion: Broadband absorption for enhanced performance in solar applications." *13th Annual Robert M. Langer Symposium*, New Haven, CT. Oral presentation. December 11, 2015.
- "Dual-sensitizer triplet–triplet annihilation upconversion: Towards more broadband absorption for enhanced performance in solar applications." *250th ACS National Meeting*, Boston, MA. Oral presentation. August 16, 2015.
- "Enhanced emission from a dual-sensitizer triplet–triplet annihilation upconversion system." *AEESP 2015 Conference*, New Haven, CT. Poster presentation. June 15, 2015.
- "The role of acyl carrier protein identity in cyanobacterial alkane biosynthesis." *4th Annual Penn State REU Symposium*, State College, PA. Oral and poster presentation. August 2, 2012.
- "Analysis of conformational changes in thrombin mutants and their effects on thrombomodulin binding." *2010 MERCURY Consortium Conference*, Clinton, NY. Poster presentation. August 1, 2010.