Gabriella Tosado

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Education

University of Washi	ngton , Departmen	nt of Chemical Engineering		
PhD. Ongoing	GPA: 3.52			
University of Miami	, College of Arts a	and Science		
Majors: Chemistry, E	cosystem Science	e and Policy, Religious Studies		
Minors: Mathematics	GPA: 3.71	Graduation Date: May 2015		
Leadership				
Founding Member V	Vomen in Chemi	ical Engineering		2015-Present
• Initiate outreach eff study a STEM fie		d encourage young women to		
		ical engineering of all levels from and academic fields	m	
Women's foil captai	n for University o	of Miami Fencing Team		2014-2012
• Taught new fencers involved in fencing		nd strategic ways of thinking		
 Spearheaded campu 	is tournament for	Miami participants		
Corresponding Secr	etary for Service	e Fraternity Alpha Phi Omega		2013-2012
e		us House, with Relay for Life, th s hospitals in Miam	ıe	
Opened communication	ation with our Alu	umni and kept them involved in		

Research Experience

neutral lysine synthesis

PhD Student, University of Washington, Dr. Qiuming Yu	January 2016-Present
 Developing perovskite crystal solar cells and discovering ways to stabilize components for future commercialization 	
NSF Research Experience for Undergraduates , University of Wiscons Dr. Brian Pfleger, Dr. Andrew Markley	May-August 2014
• Developed primers, genetically engineered cyanobacteria and analyzed effectiveness of genetic modifications	
 Optimized parameters for species of bacteria in use, discovered why cyanobacteria were crashing in dairy digestate samples for carbon 	

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Environmental Glacial Research , <i>University of Iceland, Dr</i> . Þóra Ellen Þórhallsdóttir	January-May 2014
 Analyzed soil composition and content of various glacial recession sites for seedling growth to discover first succession cycle in Iceland 	
Molecular Wire Research, University of Miami, Dr. Nita Lewis	August-December 2013
• Synthesized molecular wires for use in nanoelectronics and tested their viability	
Environmental Research , University of Miami, Professor Gina Maranto	August-December 2012
 Created plan of action for the University of Miami's green effort based on sustainability policies of other institutions and literature research. 	

Awards, Honors and Fellowships

Honorable Mention NSF Fellowship	April, 2016
John Tershin Endowed Chemical Engineering Fellowship	September, 2015
Achievement Rewards for College Scientists (ARCS) Fellowship	Мау, 2015
ICHEIC Miami Award	March 2014
NSF EFRI-REM Award	May, 2013
President's, Provost's, Dean's List	2011-2015
Florida Academic Scholars Award	August, 2011
Dickinson Scholarship	August, 2011

Presentations

Tosado, Gabriella, "Cyanobacteria Response in Dairy Digestate for Carbon Neutral Lysine Synthesis". REU Poster Session, University of Wisconsin-Madison, July 2013

Teaching and Educational Outreach Experience

Mass and Energy Balance Teaching Assistant, University of	March 2016-June 2016
Washington, Dr. Bradley Holt	
• Instructed a class of 70 undergraduate in the concepts of mass and	
energy balance	

• Clarified any confusing topics with students

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Cleveland High School Lecturer	May 2016
 Lectured to graduating seniors about chemical engineering career opportunities to encourage more minorities towards STEM majors 	
Medina Elementary School STEM Night Lecturer	April 2016
• Presented chemical engineering concepts at an elementary school level to over 200 students	
High School Expanding Your Horizons Conference Lecturer	March 2016
• Introduced chemical engineering concepts to over 60 high school women in an effort to close the gender gap in STEM	
Bryant Elementary Mentorship	January 2016-March 2016
• Helped groups of elementary students through the scientific process for school science fair	
Chemistry Teaching Assistant, University of Miami, Dr. Tegan Eve	August 2013-May 2015
• Designed teaching material to effectively test students on what they learned in class and their knowledge of the day's experiment	
• Oversaw freshmen chemists during all experiments and made a safe environment for students	
 Taught techniques for testing melting/ freezing point and depressions, recrystallizations, purifications for different substances, identification and pH experiments 	
Engineering Camp Lecturer and Counselor, University of Wisconsin	May-August 2014
Madison, Franscisca Jofre	
• Challenged students with environmental problems and guided them to create solutions	
• Encouraged and led students to create their own robotic devices	
Summer Camp for Autistic Children Counselor, Aldrin Elementary School, Lesley Aschenbach	June-August 2010
• Taught children with various mental disabilities basic reading and math	
• Developed daily activities for campers to practice music and art	