

Lauren Costantini

costan14@msu.edu

3378 Edmunton, Rochester Hills, MI

248.978.7353

Education

B.S. Biosystems Engineering with a Spanish minor

Expected May 2017

Michigan State University (MSU), East Lansing

- GPA 3.85/ 4.0
- Honors College Member
- Dean's List (5/6 semesters)

Study abroad at La Universidad San Francisco de Quito in Ecuador

Summer 2015

- Lived for nine weeks with a host family and became immersed in a new culture
- Gained experience with different cultures and learned to be a global citizen

Professional Experience

Learning Assistant in Problem-Based Physics Class, MSU, East Lansing, MI

Fall 2015-Present

- Facilitated groups of four students through a daily physics problem, encouraging teamwork and asking critical questions to ensure deeper understanding of the material
- Cultivated leaders through weekly individual written feedback on performance and ways to improve
- Explained difficult concepts and prompted students towards the correct thinking in physics help room

Research Assistant, Safferman Biosystems Engineering Lab, MSU, East Lansing, MI

Fall 2013-Present

- Designed an individual research project on the effect of cover crops on the release of phosphorus during winter freeze-thaw cycles and wrote a proposal to obtain funding from the Fall 2015 and 2016 Research Scholarship from the College of Agriculture and Natural Resources
- Developed and adhered to a research schedule to ensure project completion
- Managed project on the regeneration of an iron-coated media and presented findings in a research poster at the 2014 University Undergraduate Research and Arts Forum (UURAF) and additional research at the 2014 Mid-Michigan Symposium for Undergraduate Research Experience (Mid-SURE)
- Assisted with a project testing the success of an Advanced Grease Interceptor System to prevent pipe damage in restaurants due to the high concentration of fats, oils, and grease in effluent water

High School Research Mentor, Biosystems Engineering Lab, MSU, East Lansing, MI

Spring 2015

- Supervised a high school student during the COHORT program (College-High School Research Teams)
- Collaborated on a research project using isotherms to find the adsorption capacity of iron-nano-coated material to adsorb phosphorus in order to minimize environmental impact
- Presented findings at UURAF 2015 and 2015 Fate of the Earth Symposium

Leadership and Outreach

Facilitator at International Graduate Student Orientation, MSU, East Lansing, MI

Summer 2017

- Planned small group sessions for ten graduate students to introduce them to common teaching practices and MSU culture

Tau Beta Pi Engineering Honors Society Secretary

Spring 2016-Present

Biosystems Engineering Club Member

Fall 2015-Present

Member Coordinator for online MSU magazine, SCI –Solve. Collaborate. Investigate.

Fall 2014-Present

- Wrote articles based on prevalent occurrences in the scientific community
- Organized communication between members and officers
- Brainstormed and implemented practices to improve the publishing process and maintain members

M-RULE (Multi-Racial Unity Living Experience) Club Member

Fall 2013-Spring 2015

- Participated in round table discussions about prevalent cultural and social issues and simultaneously developed public speaking skills
- Met a range of people from diverse backgrounds and discussed different perspectives