

Civil and Environmental Engineering Academy of Distinguished Alumni

Undergraduate Research Opportunity Program (UROP)

Academy of Distinguished Alumni Sponsorship funds are put to valuable use supporting the CEE Department **Undergraduate Research Opportunity Program (UROP)**. UROP is a highly selective program that targets the top 20 to 25 high school students admitted to CEE every year and offers each of them a guaranteed faculty-mentored undergraduate research experience, along with research-focused seminars and a \$4,000 stipend. The program is intended to help bring these outstanding students to campus for both their benefit and the department's, with the long-term goal of producing outstanding graduates whose contributions improve our world.

Through the generosity of the Academy of Distinguished Alumni sponsors, the Academy donated \$25,000 each year to support the first UROP cohorts in 2013, 2014 and 2015. In 2016, the Academy contributed \$65,000 to the UROP program and in 2017, the Academy contributed \$75,000. This is a great outcome for our students. We hope to be able to provide a similar level of support in 2018. UROP recipients for each year are listed below:

CLASS OF FALL 2013 WITH RESEARCH PROJECTS AND FACULTY SPONSORS:

Wes Adrianson – Comparing Modeling Methods for Surface Water Elevation (SWE) Calculation in the American River Hydrological Observatory Wireless Snowpack Modeling (Steve Glaser)

Anthony Privitera – Car Sharing and Its Impacts on Travel Behavior (Susan Shaheen)

Brandon Wong – Numerical Damage Modeling of Structures Under Earthquake Loading (Filip Filippou)

Alyssa Yu – Investigation of Changes in Anammox in the Presence of Different Support Media and Their Isolation Using Ichip (Yoram Rubin)

CLASS OF FALL 2014 WITH RESEARCH PROJECTS AND FACULTY SPONSORS:

Matthew Choi – Mechanical Properties of Stuvite-K: An Experimental Study (Paulo Monteiro)

Judy Guo – Predicting the Future: Earthquake Engineering and Structural Analysis Through MATLAB (Filip Filippou)

Frank He – Mapping and Analysis of Fire Severity and Its Effect on the Modeled Vegetation Regrowth in the Sierra Nevada (Sally Thompson)

Dylan Kato – Wetland Surface Elevation Response to Tidal Cycles (Evan Variano)

Monica Liu – Predicting the Future: Earthquake Engineering and Structural Analysis Through MATLAB (Filip Filippou)

Suraj Patel – Rotating Carbon Nanotubes Membrane for Water Desalination Content (Shaofan Li)

Andrew Veenstra – Recession Analyzer: A Web Application for Methodological Analysis of Power Law Recessions (Sally Thompson)

CLASS OF FALL 2015 WITH RESEARCH PROJECTS AND FACULTY SPONSORS:

Tamika Bassman - Compression Behavior of Reinforced HyFRC (Claudia Ostertag)

Alexander Ryan Danto – Mapping Motor Vehicle Activity and Emissions at High Spatial Resolution (Robert Harley)

Mark Jaffee – Innovative Mobility: Carsharing in North & South America (Susan Shaheen)

Devansh Jalota – Carpool Lane Dynamics (Michael Cassidy)

Daryn Lee – Artificial Tree for Solar Powered Desalination (Baoxia Mi)

Danny Leyva – Artificial Intelligence (AI) Enabled Modeling of Natural Hazards' Effects on the Built Environment (Jack Moehle)

Arisa Nguyen – Trichloroethene dechlorination by *Dehalococcoides mccartyi* and *Desulfovibrio vulgaris* co-culture in a membrane bioreactor (Lisa Alvarez-Cohen)

Pallavi Panyam - Research in Shared Mobility Systems (Susan Shaheen)

Stephen Shelnett – Shear Strength of Dry Joint Bridge Segments with HyFRC (Claudia Ostertag)

Emily You - Energy Systems Optimization (Scott Moura)

CLASS OF FALL 2016 (To be matched to a research advisor in fall 2018):

**Talia Rae Arauzo
Mira Neva Chaplin
Dennis Chiu
Erin Saiki
Sage Sanam Shamsai
Ella Wang
Mike Wehrmeyer
Annie Zheng**

CLASS OF FALL 2017 (To be matched to a research advisor in fall 2019):

**Dorothy Bechler
John Bryant Cadiz
Ji Woo Choi
Jarek Chu
Matthew Grehm
Logan Trevor Hall
Joshua Bruce Jacoby
Trevor Wu
Jeannie Yi Pei Yang
Chris Yeon
Karlin Yiu**