

GRACIE WONG

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EDUCATION

BS Earth System Science (GPA: 3.899/4) Dec. 2018
University of California, Irvine
Campuswide Honors Program

RESEARCH EXPERIENCE

UCI Earth System Science Jan. 2017 - Present
Junior Specialist, Irvine Jan. 2019 - Present
Undergraduate Researcher, Irvine Jan. 2017 – Dec. 2018
Advisor: Dr. Saewung Kim and Dr. Alex Guenther
Explored multiple sample introduction methods and generated multi-concentration calibration standards to find an ideal analytical method to sample the compounds over the marine boundary layer. Characterized dimethyl sulfide and methyl halides using mass spectrometry and vacuum UV spectroscopy. Analyzed VOC distribution from cartridge samples from the Arctic and Antarctic.

EMPLOYMENT HISTORY

University of California, Office of the President Sept. 2016 – Dec. 2018
Food Waste Fellow, Irvine
Collaborated with campus partners to develop engaging programs and projects for food waste awareness. Composed and received grants totaling over \$15,000 for sustainability projects. Designed and distributed 6000 copies of a 56-page sustainable cookbook to students and spearheaded the development of interactive waste-separation bins. Contributions were submitted as UCI sustainability innovation in Sierra's 2018 "Cool Schools" ranking and AASHE STARS, with UCI taking the #1 spot and platinum ranking respectively.

HONORS AND AWARDS

UCI Lauds & Laurels Outstanding Undergraduate Student 2019
Reward Opportunity Advancing Distinguished Students (ROADS) Scholarship 2018
California Higher Education Sustainability Conference Scholarship 2018
Undergraduate Research Opportunities Program Fellow 2017 - 2018

GRANTS

#MyLastTrash Grant Nov. 2017

Awarded \$1,000 to host zero-waste cooking programs in student residential housing to help UCI achieve zero waste by 2020.

The Green Initiative Fund May 2017
Awarded \$5,000 to print and distribute 6000 copies of a specially designed sustainability cookbook to undergraduate students.

Pepsi Co. Zero Impact Fund Dec. 2016
Awarded \$10,000 to develop interactive digital waste bins with the aim to increase accuracy of waste separation among students.

PRESENTATIONS

Oral Presentation, “Student Institute for Sustainability Leadership: Cultivating a Culture of Sustainability,” California Higher Education Sustainability Conference, June 11, 2018.

Poster Presentation, “Food Waste Reduction through Education and Social Behavior Change,” California Higher Education Sustainability Conference, July 10, 2018.

Oral Presentation, “Characterization of Dimethyl Sulfide and Methyl Halides using Mass Spectrometry and Vacuum UV Spectroscopy,” Earth Systems Science Undergraduate Research Seminar, June 5, 2018.

Poster Presentation, “Characterization of Dimethyl Sulfide and Methyl Halides using Mass Spectrometry and Vacuum UV Spectroscopy,” Earth Systems Science Undergraduate Research Seminar, May 20, 2018.

Poster Presentation, “Food Waste at UCI Housing and Dining,” California Higher Education Sustainability Conference, June 27, 2017.

Poster Presentation, “Food Waste Comparison between Costa Rica and UCI,” Costa Rica Symposium, May 9, 2016.

COMMUNITY, OUTREACH, AND INVOLVEMENT

Earth System Science Club June 2017 - Present
Vice President, Irvine
Coordinate with faculty and board members to host alumni and industry networking events

zotCAMS: Student Chapter of American Meteorological Society at UC Irvine Sept. 2017 - Present
General member, Irvine

Catalina Island Sustainability Experience Alternative Spring Break Jan. 2018 - April 2018
Trip Leader, Irvine

Led a week-long trip to Catalina Island to educate peers on sustainability practices

Student Institute for Sustainability Leadership June 2016 – Sept. 2017
Mentor/Facilitator, Irvine
Facilitated 3-day long retreats to introduce incoming students to sustainability leadership

Student-Led Congress Jan. 2017 - May 2017
Facilitator, Irvine
Coordinated a weekend retreat to inspire students to start their own sustainability projects

Costa Rica Program Dec. 2015 - June 2016
Student Ambassador, Irvine
Traveled to Costa Rica to research food waste and farming practices and administered outreach programs to engage the community in sustainability

EarthReps Sept. 2015 - June 2016
Intern, Irvine
Promoted sustainability on campus through outreach events and presentations

COMPUTER SKILLS

Computer Skills: MATLAB, ArcGIS, IGOR

Instrument Operation: Gas Chromatography, Mass Spectrometry, Vacuum UV, Flame Ionization Detector, Gas cartridge sampling, general plumbing of air quality measurement instruments

RELEVANT UNDERGRADUATE COURSES

Atmospheric Chemistry	Fundamentals of GIS
Organic Chemistry	Global Climate Change
Air Pollution Consequences	Multivariable Calculus
Data Analysis for Earth Sciences (MATLAB)	Linear Algebra
Field Methods	Statistics
	Classical Physics

LANGUAGES

English: Native Language

Mandarin Chinese: Native Language, Advanced Reading and Writing