Fall Quarter in Review

In Fall 2021 we saw a rejuvenating return of our trainees, faculty, and staff to the UCI campus. While we are still navigating this new set of challenges with in-person and hybrid learning, we continue to press on and remain flexible to keep our students and staff safe.

This quarter, we also welcomed seven new trainees to the 2021 Cohort: Kristin Barbour, Kierra Lentsch, Shu Li, Kyle Manley, Margarita Rivera, Kameko Washburn, & Allison Welch. Congratulations, trainees!
Quarter Highlights

Environmental Research Poster Symposium

This year, our Environmental Research Poster Symposium was jointly sponsored by Ridge 2 Reef & UCI Solutions that Scale. The symposium was held in person on campus at UCI’s new Interdisciplinary Science & Engineering Building.

Depth matters: Bacterial response to drought and wildfire depends on depth in the surface soil

Kristin Northcutt, Claudia Wohle, Jennifer Mortery

Pathways to Meeting the U.S. DOE Clean Hydrogen Energy-Efficient and Cost-Effective Geothermal Heating - and Cooling

Jazmín Chen, Tim Kim, Xingping Pan, Shaw Arab

Aging dermatoglyphics: An Analysis of Age and Training Effects on Brain Games

Priyam Bajpai and Mark Bajerski

Techno-economics analysis of seaweed-based climate solutions

Julianne Delgadillo, Isabella Zerato, Benjamin Silber, Christine Freid, Matthew Long, Kristen A. Davis, Steven J. Davis

Forecasting Wildlife Spread with Convolutional Neural Networks


No water no problem: How fungi evolve to drought

Melanie Hacopian and Kathleen Tzvender

Association of short-term heat exposure with premature rupture of membranes in Southern California: A study from a large pregnancy cohort

Anqi Ocaña, Chantal Ailla, Vivki Chu, David A. Zales, John Mattox, Ju-Chuan Chen, Yan Jin, Darnes DeSastre, Jun Wu

Surface area and detachment stress effect on the clogging performance of phytoplankton assemblages

Klara Lundy, Dr. Mary Kate O’Donnell, Dr. Stephen Delco

Spatial and temporal distribution characteristics of uncollected prescribed fires in California

Jill H. Parlee, A. Bagnoth-Wooten, Timo Römerig

Analyzing the role of ocean circulation in carbon uptake under climate warming

YUAN Ji, Keith Reicos, Francois Pimelou

Modeling Climate Change Impacts to Nature Recreation Using Social Media and Machine Learning

Kyle Manley and Benji Egoh

A Heat Budget of a Tidally Flushed Abbt Ziegler

Sarah Roth, Morgan, Greg Sinnett, Elena Powell, Kristen Davis

Atorinically tailored Catalysts for sustainable Zn-Bond Formation

Jammie Swain, Matin Cordova, Yuanchao Li, Max Arguello, Peter Atkinson

Soil microbial ecology in urban environments

Ainslie Nugent and Steven Alifon

Coves and Climate: runway in Mexico (28,000 Years Ago)

Bryant Paal, Kathleen Johnson

The relationship between hippocampal subfield volumes and human navigation ability

Allie E. B., Collin Monteith, Elizabeth R. Christi

Online process-based and offline empirical approaches for simulating the methane emission response to drought and wildfire

Nut Wiang, Alex B. Lenert, Roger Secco, Thomas Cast

Infrastructure provision in California: A descriptive analysis of CEQA projects, 2010-2020

Jie Wang, Hailu Umarwall, Steven J. Davis, Tyler A. Scott

Towards nation-wide H2 emissions

K. Sarah Wang, Steven J. Davis, Jeremy Y. Yang

Jett’s shoreline: Implications of expanding submarine outcrop properties in Arctic clastic sands

Alisyn Walsh, Shawn Pederson, Robert Jespersen, Yves Benkendorf, Wili Fornace, Michael Goulson, Brittany Martinez, Xiaoming Yu, Claudette Combi

Affiliations: Ridge to Reef Program, UCI Solutions that Scale, 2020: Communication Skills; Chemistry; and Biomolecular Engineering; Chemistry; Civil and Environmental Engineering; Cognitive Sciences; Computer Science; Earth System Science; Ecology and Evolutionary Biology; Education; and psychology; and Environmental and Occupational Health; Urban Planning and Public Policy; Undergraduate Research Opportunities Program
Quarter Highlights

Congratulations Robert Fofrich and Ariane Jong!

This year, among the awardees of the Rose Hills Foundation Science and Engineering Scholarship Graduate School Program are R2R trainees Robert Fofrich & Ariane Jong. This award recognizes talented students whose academic excellence and leadership qualities align with the mission of the Rose Hills Foundation: to support non-profit organizations that will serve the Southern California community.

Congratulations Ariane and Robert!

Education
Advancing educational opportunities and success for students at all levels

At-Risk Youth & Families
Supporting effective interventions and services for at-risk youth and families

Social Services
Helping meet basic needs for food, housing, health care, employment and supportive services

Arts & Culture
Supporting regional institutions and expanding access to programming