



## Spotlight on Sustainability Projects (Selected examples) Undergraduate Research, Scholarship & Creative Activities Conference 2020 See 2020 abstract book for more details about each project

Dolabrelexins and Its Role in the Growing Demands for Sustainable Crop Production

Chelsea Barrett, Major: Chemistry

Environmental Impact in the Reduction of Plastic on a Local Level Alessandra Beelen, Major: Biological Sciences Sabrina Denton, Major: Environmental Science and Management

Alexis Zavala, Major: Wildlife, Fish & Conservation Biology

Implications of Noise Sensitivity in Tree Swallows Lead to Possible Decrease of Birds

Jessica Beskind, Major: Wildlife, Fish and Conservation Biology

The Impact of Stress on Children's Development based on Irregular Sleep Patterns Rosalina Burton, Major: Human Development

Different Methods of Controlling Growth Patterns of Mycelium for Applications in the Design Field Emily Carlson, Major: Design

Studies of Conventional Products to Enhance the Interaction of Humans with Computers Based on Emotions Yu-Shih Chen, Major: Computer Science & Engineering

The Correlation Between Chronic Stress and Socioeconomic Status (SES)

Guogin Sun, Major: Computer Science

Austin Dalmasso, Major: Global Disease Biology

Characterization of Lethal and Sublethal Effects of Agricultural Runoffs
Nicole Egan, Major: Environmental Toxicology

Why We Should Increase Gasoline Tax: The Study Across Three Statewide Ballot Measures to Increase Gas Tax Lucas Epstein, Major: Economics

The Real Vegan Cheese Project: Genetically Altering Kluyveromyces lactis to Express Four Common Bovine Casein Proteins
Phillip Garcia, Major: Chemical Physics
Ellis Hegarty, Major: Biochemistry & Molecular Biology

The Genealogical Representation of Muslims, Arabs, and Islam through the New York Times
Nancy Juarez, Major: International Agricultural Development

Algae Infestation Levels and its Impact on Rice Seedling Emergence and Establishment Guelta Laguerre, Major: International Agricultural Development

Undercover the Impact & Implications Underlying the Use of AI Powered Technology Within the Workforce Marcelo Lopez, Major: Sociology

Imitating the Rocket Propulsion Systems (RPS) to Accelerate Project-Based Aerospace Education Gloria Navarro, Major: Mechanical Engineering

Phosphate Response in Crop Species
Kelly Pan, Major: Biological Sciences

Pathogen and its Effects on Soil
Christine Singh, Major: Biochemistry & Molecular Biology

**Bioplastics: Conventional Petroleum-Based Plastics** *Britton Stark, Major: Biological Systems Engineering* 

**Did you know....** undergraduate students can apply for a TGIF mini-grant to support their research related to sustainability? Learn more at:

http://sustainability.ucdavis.edu/students/ TGIF





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Synchronization between Walking Rhythm and Motion of a Walking Stick Jessica Tang, Major: Biomedical Engineering

Sustainability of the Boba Industry through Human-Centered Design Julie Xu, Major: Design

Vascular Reactivity of Small Diameter Mesenteric Arteries is Altered in Mice exposed to SHS Thanhmai Le, Major: Neurobiology, Physiology and Behavior

**Bacterial Load of Transgenic Lettuce Plants** Andreina Urrutia Gonzalez, Major: Microbiology

The Activation or Repression of Modify Gene Expression Shehan Wijesinghe, Major: Evolution, Ecology & Biodiversity Jean Sabety, Major: Plant Biology

Multi-functional Wearable Shelter from Upcycled and/or Recycled Materials Yuxin Mao, Major: Design

**Wave Reflection of the Cardiac Tissue** Vincent Lovero, Major: Applied Math

Pancreatic Cancer Treatment and Autophagy Inhibitors Deepak Vijay, Major: Microbiology



## Sustainability at UC Davis

UC Davis strives to be a model sustainable campus, meeting measurable goals by improving daily operations; planning for the long term; and employing campus research, cutting-edge technologies and community collaboration. The Office of Sustainability develops, leads, and coordinates sustainability efforts throughout the UC Davis campus. Staff members create strategies and plans to improve campus operations, work to implement the UC Office of the President's sustainability policy, establish sustainability metrics for UC Davis, collaborate with faculty and students on project-based learning and learning-by-leading opportunities, build institutional capacity for sustainability on- and off-campus, and inspire the community to work toward a sustainable future.

The Green Initiative Fund (TGIF) promotes sustainable development by providing necessary monetary resources to the UC Davis community. As part of a higher education institution, TGIF will involve and educate students of all Backgrounds by empowering them to develop, propose, and enact sustainable projects on campus.

FICE OF SUSTAINABILITY

Learn more at: http://sustainability.ucdavis.edu