



# Undergraduate Research Day Schedule



Wednesday, April 8<sup>th</sup> Online

## Time

### Poster Presentations

- 11:00 –  
12:15
- Evaluations of Trace Elements in Black Goji Berries (*Lycium ruthenicum*) by Sophealyta Kheang ([link](#))
  - Comparison of Polished Rod Motion for Conventional and Cam-Driven Pumping Units by Ngun Nawl Ceu ([link](#))
  - Maximum Power Point Tracking in Photovoltaic Systems Nikita Naumov ([link](#))
  - Mathematical Modeling of a Conventional Solar Still and Methods to Improve Solar Still Performance by Anna V. Valenzuela ([link](#))

### Oral Presentations ([link](#))

- 12:30 Peer-Led Team Learning Application to Improving Student Achievement in General Chemistry I by Aidely Aranda
- 12:45 Traffic and Security Analysis on Tello Drones by Edmund S. Bridges
- 1:00 Motion Detection in Autonomous Vehicles by Dallas L. Caro
- 1:15 Sexual Assault in Television Feeds into Rape Culture by Rebecca Kochanek
- 1:30 Comparing the Impulse Curves of Static and Dynamic Launches by Dean Lizzotte
- 1:45 Proliferation of Smooth Muscle Cells and the Effects of Lysophosphatidic Acid (LPA) on Cyr61 Protein Expression and Smooth Muscle Cell Migration by Bethanie Quintela
- 2:00 Fabrication of a Capacitive Deionizer by Garrett Martin
- 2:15 The Synthesis of Designed Xanthine Oxidase Inhibitors (FYX051) by Mannich Reaction and Stetter Reaction by Hao Che Peng
- 2:30 Assessing the Attenuation of *Lactobacillus* Biofilm Products Against *C. Albicans* Species in Vaginal Microflora by Mikayla Rodriguez
- 2:45 Effects of Design on the E-commerce Community by Martha Angelica Romo
- 3:00 Assessments of Groundwater Resources and Availability with Total Dissolved Solids (TDS) in the Delaware Basin, Texas by Michael Valencia
- 3:15 Alternative Modular Computer Input System by Louis Devirgilio