

THE SYMPOSIUM FOR
STUDENT
and **INNOVATION, RESEARCH,**
CREATIVE ACTIVITIES



TEXAS A&M
UNIVERSITY
CORPUS
CHRISTI

**RESEARCH &
INNOVATION**

APRIL 26, 2024

UNIVERSITY CENTER



Dear Students, Colleagues, and Friends,

It is with great pleasure and enthusiasm that we welcome each of you to the 2024 Symposium for Student Innovation, Research, and Creative Activities! This event marks a celebration of knowledge, innovation, and the boundless potential inherent in our collective pursuit of learning. We embrace the spirit of collaboration and exploration that defines our symposium.

We extend our sincerest appreciation to all who have contributed to the success of this event. Your support has been instrumental in making this symposium a reality, and we are grateful for your commitment to nurturing the next generation of thinkers and leaders.

To our participants, seize this opportunity to share your passions, exchange ideas, and forge connections that will shape your academic journey and beyond. Embrace the challenges, relish the discoveries, and cherish the moments of inspiration that await you today!

Sincerely,

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- | | | |
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SSIRCA Keynote Speaker

April 26, 2024 | 3 - 4 p.m. | UC Lonestar Ballroom

Dr. Valerie Young

Rethinking Impostor Syndrome™

Why Capable Students Doubt Their Competence and What to Do About It



Dr. Valerie Young is a global thought leader on impostor syndrome and co-founder of the Impostor Syndrome Institute. She has spoken at over 100 colleges and universities, including Harvard, Stanford, Oxford, and five times at MIT. She's also shared her highly relatable and practical advice at such diverse organizations as Pfizer, Microsoft, the National Cancer Institute, and the NBA to name a few.

Valerie's work has been cited around the world in publications such as *Time*, *Newsweek*, *Psychology Today*, *Science*, *The New York Times*, *The Wall Street Journal*, *The Chronicle of Higher Education*, *The Sydney Morning Herald*, *Globe & Mail*, and on BBC Radio.

She is the author of the award-winning book "The Secret Thoughts of Successful Women and Men: Why Capable People Suffer from the Impostor Syndrome and How to Thrive in Spite of It" with Random House, and is published in seven languages.

SSIRCA Schedule

April 26, 2024

(All rooms are located in the University Center)

8 a.m. - 1 p.m.	CHECK-IN AND Q&A TABLE OPEN	<i>Tejas Lounge</i>
8:30 - 9:30 a.m.	ORAL PRESENTATIONS	
	<i>Education & Belonging</i>	<i>Cayo 210</i>
	<i>Environmental Science & Technology</i>	<i>Copano 216</i>
	<i>Environmental Monitoring</i>	<i>Dolphin 306</i>
	<i>UAS Technology</i>	<i>Marlin 317</i>
9:45 - 10:45 a.m.	ORAL PRESENTATIONS & PERFORMANCES	
	<i>STEM Education</i>	<i>Cayo 210</i>
	<i>Healthcare</i>	<i>Copano 216</i>
	<i>Impacts on Coastal Ecosystems</i>	<i>Dolphin 306</i>
	<i>Harmonies</i>	<i>Anchor 147 AB</i>
11 a.m. - noon	ORAL PRESENTATIONS & PERFORMANCES	
	<i>UAS & Engineering</i>	<i>Cayo 210</i>
	<i>Insights into Coastal Ecosystems</i>	<i>Copano 216</i>
	<i>Theatrical Artistry</i>	<i>Anchor 147 AB</i>
1 - 2:30 p.m.	POSTER PRESENTATIONS & ART GALLERY	<i>Anchor 147 CD</i>
3 - 4 p.m.	SSIRCA KEYNOTE: DR. VALERIE YOUNG	<i>Lonestar 142</i>
	<i>Rethinking Impostor Syndrome™</i>	
4 - 4:30 p.m.	SSIRCA MIXER & STUDENT ORGANIZATION AWARDS	<i>Lonestar 142</i>
4:30 - 5 p.m.	SSIRCA AWARDS CEREMONY	<i>Lonestar 142</i>

Oral Presentation and Artistic Performance Titles and Locations

Session 1 - UC Cayo 210

Innovations in Education and Belonging

GR_Oral-0001 | *Metadiscourse markers in L2 college source-based informative essays*

Anh Thuy Dang Pham

8:30 - 8:45 a.m.

GR_Oral-0009 | *Hispanics in their STEM Career Pathways*

Mayra Angelica Alvarado Ramirez

8:45 - 9:00 a.m.

UG_Oral-0002 | *"It's everything!": The Role of Online Communities in Nonbinary Gender Identity Formation*

Bailey Otter

9:00 - 9:15 a.m.

Session 2 - UC Copano 216

Innovations in Environmental Science and Technology

GR_Oral-0027 | *Vision Adaptive Scene Generation Using GANs*

Mohammed Ali Sheriff Shaik

8:30 - 8:45 a.m.

GR_Oral-0004 | *HydroCycle SolarHarvest*

Mason Martinez; Laura Button; Cody Lopez; Mazen Hassan

8:45 - 9:00 a.m.

GR_Oral-0016 | *Movement Ecology of the Texas Diamondback Terrapin (*Malaclemys terrapin littoralis*)*

Garrett Guzoski

9:00 - 9:15 a.m.

Session 3 - UC Dolphin 306

Innovations in Environmental Monitoring

GR_Oral-0025 | *Reconfigurable Sensing Modules for Coastal Monitoring: Energy Efficient and Battery-less Autonomous Wireless Sensor Networks*

Ruben Dominguez

8:30 - 8:45 a.m.

Oral Presentation and Artistic Performance Titles and Locations

GR_Oral-0013 | Developing Methods for Elevation Restoration on Wind-Tidal Flats in South Texas

Isabel Nykamp

8:45 - 9:00 a.m.

GR_Oral-0006 | Mapping near surface groundwater discharge locations in the Western Desert of Egypt using thermal remote sensing data.

Ahmed Omar

9:00 - 9:15 a.m.

Session 4 - UC Marlin 317

Advancements In UAS Technology

GR_Oral-0015 | Coordination and Autonomy in UAV Swarms for Array Imaging

Josh Boyd

8:30 - 8:45 a.m.

GR_Oral-0026 | Modeling Disruptions in Simulation Environments for Accurate Resilience Assessment of UAV Swarms

Abhishek Phadke

8:45 - 9:00 a.m.

GR_Oral-0022 | Sensor Characterization of UAS-SfM/Lidar Technologies for 3D Modeling of Complex Landscapes

Jose Pilartes-Congo

9:00 - 9:15 a.m.

Session 5 - UC Cayo 210

Innovations in STEM Education

GR_Oral-0021 | Inspiring the Next Generation of Scientists and Educators Through a University-Middle School Collaboration

Jacqueline Rich

9:45 - 10:00 a.m.

GR_Oral-0008 | From Theory to Flight: Applying Learning Engineering and Design-Based Research in UAS Online Course Development

Renée M. Johnson

10:00 - 10:15 a.m.

Oral Presentation and Artistic Performance Titles and Locations

GR_Oral-0003 | When Checking in is Overdue

Megan Limerick

10:15 - 10:30 a.m.

GR_Oral-0023 | Student Autonomy and Engagement in the Middle School Classroom

Erin Kennedy

10:30 - 10:45 a.m.

Session 6 - UC Copano 216

Innovations in Healthcare

UG_Oral-0005 | Functionalized Magnetic Nanoparticles for Oral Health

Megan Escochea

9:45 - 10:00 a.m.

GR_Oral-0010 | Enhancing Vaccination Rates through Built Environment

Ziba Abbasian; Hossein Naderi

10:00 - 10:15 a.m.

GR_Oral-0014 | Developing and Validating Two Optical Spectroscopy-Based Assays For the Detection of Counterfeit Aspirin

Nicholas Shropshire

10:15 - 10:30 a.m.

GR_Oral-0019 | CytoViva and Surface Enhanced Raman Spectroscopy (SERS) Imaging of Human Red Blood Cells Interacting with Antimicrobial Nanosilver Released by Wound Dressings

Kyra Kaiser

10:30 - 10:45 a.m.

Session 7 - UC Dolphin 306

Environmental and Human Impact on Coastal Ecosystems

UG_Oral-0001 | Detection of Human Pharmaceuticals in Blubber of Wild Dolphins

Anya Isabelle Ocampos

9:45 - 10:00 a.m.

Oral Presentation and Artistic Performance Titles and Locations

UG_Oral-0007 | Proximity to industrial and hazardous facilities and effects on dolphin behavioral states

Leala Punjabi

10:00 - 10:15 a.m.

*UG_Oral-0004 | Molecular assay to genetically differentiate between scalloped hammerhead, *Sphyrna lewini*, and Carolina hammerhead, *Sphyrna gilberti*.*

Darian Paul

10:15 - 10:30 a.m.

*UG_Oral-0003 | Argentine Black and White Tegu (*Salvator merianae*) Behavioral and Husbandry Training*

Madeleine Licker

10:30 - 10:45 a.m.

Session 8 - UC Anchor AB

Innovations in Harmonies

UG_Art-0014 | Islander Brass Quintet + 1

Gavin Granados; Ben Camareno; Natalia Canelo; Jaden Byars

9:45 - 10:00 a.m.

UG_Art-0007 | Ghosts of the Italian Opera

Liv Moya; Juan Rios; Nathaniel Askey; Alan Kecevic; Jessica Valdez

10:05 - 10:20 a.m.

GR_Art-0004 | Trach (Pronounced "Trash"): Visual Poetry Performance and Explication

Zoe E. Ramos

10:25 - 10:40 a.m.

Session 9 - UC Cayo 210

Advances in UAS and Structural Engineering

GR_Oral-0024 | Collision-Free Motion Planning for Autonomous UAVs in Dynamic Environments

Syed Izzat Ullah

11:00- 11:15 a.m.

Oral Presentation and Artistic Performance Titles and Locations

GR_Oral-0017 | Securing the Skies: 2D and 3D Geofencing for Drone No-Fly Zones
Joshua Garcia
11:15 - 11:30 a.m.

GR_Oral-0007 | Predictive Modeling and Multi-Objective Optimization of Sustainable Biochar Cementitious Composites: Transparency through Explainable Artificial Intelligence
Fazal Hussain
11:30 - 11:45 a.m.

GR_Oral-0005 | Emulation of bridge deck aeroelastic forces under forced vibrations via transformers
Ashutosh Mishra
11:45 a.m. - 12:00 p.m.

Session 10 - UC Copano 216

Insights into Coastal Ecosystems

GR_Oral-0012 | A Time Series Study of the Microbial Community Assemblage at a Coastal Ocean Site within the Gulf of Mexico
Mahima Yogesh
11:00- 11:15 a.m.

GR_Oral-0020 | Characterization of Benthic Macrofauna Communities on Beaches in the Upper Texas Coast
Melanie Ponce
11:15 - 11:30 a.m.

GR_Oral-0002 | Lavaca Bay Marsh Ecosystem Assessment: Trends in Nekton Abundance and Distribution
Robinson McMillan
11:30 - 11:45 a.m.

GR_Oral-0011 | Capturing Caribbean Colors: Using Visible Coral Coloration to Monitor Gulf of Mexico and Caribbean Reef Health
Casey Gallagher
11:45 a.m. - 12:00 p.m.

Session 11 - UC Anchor AB

Exploring Theatrical Artistry

UG_Art-0007 | Purple Nurples: A Devised piece of Theatre

Natalie Festari

11:00- 11:15 a.m.

UG_Art-0015 | An Actor's Trust

Korey Sayre

11:20 - 11:35 a.m.

UG_Art-0016 | Woyzeck

Matthew Craig

11:40 - 11:55 a.m.

Undergraduate Posters

UG_Poster-0001 | DNA Profiling of 40-Year-Old South Pacific Coral Skeletons
Joseph Garza

UG_Poster-0002 | Ocean acidification impacts on the photosynthetic capabilities of the symbiotic algae within two Hawaiian coral species, Montipora capitata and Pocillopora acuta
Autumn Hampton

UG_Poster-0003 | The Effect of Optic Flow and Gait Speed on Nonlinear Spatiotemporal Gait Variability in Healthy Young Adults
Katherine Colburn

UG_Poster-0004 | Decadal Variations in the Geographical Distribution of Severe Precipitation Features Selected by the Minimum Polarization Corrected Passive Microwave Brightness Temperatures
Carl Meade

UG_Poster-0005 | The Effect Backpack Load on the Sample Entropy of Static Posture in Healthy College Students
Miranda Gonzalez

UG_Poster-0006 | Spatial distribution of organic matter content of restored oyster reefs
Kalie Tovar

UG_Poster-0007 | The Effect of Optic Flow and Gait Speed Disconnect on Dynamic Parameters of Static Posture in Healthy Young Adults
Madison Cuellar

UG_Poster-0008 | Efficient and Economic Heparin Recovery from biological mixture Using different types of adsorbents.
Niko Longoria; Katelyn Reid

UG_Poster-0009 | Learning by Serving at Redhead Pond: Removing Invasive Species
Victoria Sedillo; Ti'yana Lovings

Poster Presentations and Art Gallery

UG_Poster-0010 | Assisting with Lowering Food Insecurity: Service-Learning with The Salvation Army
Christian Quintero

UG_Poster-0011 | Empowering futures: Raising awareness for foster youth through community - based learning at Agape Ranch
Ariana Esquivel

UG_Poster-0012 | Community mental health support as viewed through a lens of service.
Mia Kemp

UG_Poster-0013 | Environmental service-learning: Invasive species removal and trash clean-up at Redhead Pond Wildlife Management Area
Allie Watson

UG_Poster-0014 | Developing clarinet-specific skills with middle school students: A service learning project
Allison Maruschak

UG_Poster-0015 | Serving and Learning for Edgar and Ivy's Cat Sanctuary
Dillon C Conaway

UG_Poster-0016 | Assessing Demographics of Historical Fish Populations with Archival Scales
Haven Stevenson

UG_Poster-0017 | OCEANS Project; Inspiring Cross Generational Environmental Stewardship in the Flour Bluff Community
Hector Antonio Geronimo Watt; Mataia Paley; Taylor Rausch

UG_Poster-0018 | Understanding the Power of Language and Communication: A Service-Learning Project
Michelle Hazard; Ivy Nguyen

Poster Presentations and Art Gallery

UG_Poster-0019 | Environmental Stewardship in Primary Education: A Place-Based Learning Project

Ciara Bohn; Ava Gates

UG_Poster-0020 | Community-based service learning: Awareness of food insecurities

Aaron Schnacker

UG_Poster-0021 | Theoretical Prediction of Stereospecific Binding Affinities for Selected β -Blockers to Amino Acid-Based Molecular Micelles

Thea Kraft

UG_Poster-0022 | Distinguishing change in seagrass algal-epiphyte communities using absorbance and fluorescence spectral properties

Amelia Mangum

UG_Poster-0023 | A Comparative Analysis of Amino Acid Profiles and Nitrogen Isotope Patterns in Zooplankton and Associated Fecal Pellets

Ames Finley

UG_Poster-0024 | Civic Learning with the Flour Bluff Citizens Council: Understanding Water Quality in the Community

Hannah Bishop; Nicole Salman; Sydney Quimby

UG_Poster-0025 | Community Service Learning: Removing Invasive Species and Litter from Redhead Pond

Eduardo Amador

UG_Poster-0026 | Service Learning with the Corpus Christi Literacy Council: Helping Our Community Read

Camila Elisea

UG_Poster-0027 | Raman spectroscopy characterization of core gold nanoparticles (AuNPs) for anticancer drug delivery

Lauren Reyna

Poster Presentations and Art Gallery

UG_Poster-0028 | Synthesis of Novel Thiazolothiazole-Based Fluorescent Trianglimine Macrocycles
Emily Hall

UG_Poster-0029 | Serving at the TPWD: CCA Marine Development Center to understand local fish population restoration initiatives.
Aiden Adapathya

UG_Poster-0030 | Internet-of-Things Sensor Balloon for Solar Eclipse
Hoang Wong; Stephen Dennis

UG_Poster-0031 | Development Of Systematic Optimization Diffusion Order Spectroscopy (DOSY) NMR
Saylor Blanco

UG_Poster-0032 | Raindrop Microphysics in Warm Rain Precipitation Features Inferred from 6-Year GPM Dual Frequency Radar Retrievals
Kelsey Olson

UG_Poster-0033 | Acoustic surveys for seasonal movement of insectivorous birds along an elevational gradient in the Pacific forest of Ecuador
Ryce Hailes

UG_Poster-0034 | Isotopic differences among three estuarine-dependent species in Texas
Nichole Dopp

UG_Poster-0035 | Community-based learning and service: Volunteer Income Tax Assistance
Ashley Gutierrez

UG_Poster-0036 | Determine the effects environmental pollution have on the colonization of Arbuscular Mycorrhizae (AMF) in a coastal dune species.
Breanna Garcia

Poster Presentations and Art Gallery

UG_Poster-0037 | Language Data Processing for Applied Interdisciplinary Corpus Linguistics Research
Jennifer Vasquez

UG_Poster-0038 | Backpack Load and Unload Influence on Positional Parameters in the Static Posture of College Students
Katya Mata; Hevan Nieto

UG_Poster-0039 | Athletes Have Increased Lower Extremity Joint Moments and Powers Compared to Non-Athletes When Landing From Height
Kaleb Luna

UG_Poster-0040 | Highly Charged Covalent Organic Frameworks Bearing Spiro-Cored Tetracationic Molecular Cruciform Repeat Units
Leah Marr-Lyon

UG_Poster-0041 | Development of nanoparticles for assessing antimicrobial and host modulatory effects of bioactive molecules
Paige Rogers

UG_Poster-0042 | Learning Through Service: Project Cancer Care
Kendall Gardner; Kaeda Reamer; Destini Sanchez-Warren; Maryam Sharafeldin

UG_Poster-0043 | Understanding the Role of Environmental Advocacy through Community-Based Learning
Aleena Roy

UG_Poster-0045 | Service-learning experience: Assisting the increasing feral cat population in Nueces County
Peyton Cole

UG_Poster-0046 | Gulf Coast Jaguarundi: A South Texas Sighting Validation Model
Suzy McCall

Poster Presentations and Art Gallery

UG_Poster-0047 | An epidemic model to track SARS-CoV2 from Potential Viral Loads in Wastewater

Hanna Vinklarek; Aleesha Zissa

UG_Poster-0048 | Vitamin B12 Levels in adolescent Type 2 Diabetic Patients

Maya Manahan; Subashini Baskar

UG_Poster-0049 | The potential impacts of ocean alkalinity enhancement (OAE) on the biology and physiology of (sub)tropical coral and crustose coralline algae (CCA) species

Danielle Lisiecki

*UG_Poster-0050 | Efficiency of Curanderismo-based Plant Tinctures Measured by Kirby-Bauer Susceptibility Assays on *Vibrio vulnificus* isolates from the Atlantic Coast*

Itza Valdez

UG_Poster-0051 | Conservation of Fish Environment, Volunteering at Fish Hatchery, Service-Learning about the Fish Conservation at the CCA Marine Development Center

Adeel Ahmed

UG_Poster-0052 | Comparing the Density of Hawaiian Corals Subjected to Changing Carbonate Chemistries

Isabelle Morales

UG_Poster-0053 | Wildlife Rehabilitation at the Texas Sealife Center: A Service-Learning Project

Andrea Radish

UG_Poster-0054 | Photochromic Optical Density Transitions of a Novel Thiazolothiazole-Viologen Amphiphile in Water

Sarah Yniguez

UG_Poster-0055 | Harnessing Cellulose-Stabilized Radical Cations to Develop Fluorescent Thermochromic Inks with a Built-In High Temperature Cut-Off

Connor Duncan

Poster Presentations and Art Gallery

UG_Poster-0056 | Impacts of flame retardants on T-lymphocyte maturation in Japanese medaka larvae
Oliver Puckett

UG_Poster-0057 | Shifting Industrial Landscapes: Baseline Ammonia Levels in the Nueces and San Patricio Airshed
Sofia Miatello

UG_Poster-0058 | A mathematical Model to analyze pharmacokinetics of Ozempic 'A weight Reducing Drug'
Madalyn Lilljedahl; Alexender Ray

UG_Poster-0059 | Can Portable Muon Detectors be Used to Understand Atmospheric Dynamics?
Abigail Danielle Vasquez

UG_Poster-0060 | Solid State Fluorescence Mechanochromism of a Spiro-Cored Molecular Cruciform
Charles Jackson

UG_Poster-0061 | The Effect of Backpack Load on Lower Extremity Gait Variability in College Aged Young Adults
Shane Gary

UG_Poster-0062 | Exploring the Impact of Roads on the Movement of Texas Tortoises in Their Habitat
Natalia Pllum

UG_Poster-0063 | Learning About the Health of our Bays Through Service Summer Franklin

UG_Poster-0064 | Service Learning with the Salvation Army
Brooklynn Hale

Poster Presentations and Art Gallery

UG_Poster-0065 | Benthic Characterization of Coral Reef Habitats around Moku o Lo'e, Kāne'ohe Bay Hawai'i"
Soleil DeLorge

UG_Poster-0066 | Community-based learning: Assisting and serving the stray cat population in Nueces County.
Kaitlyn Woods

UG_Poster-0067 | Error Analysis of Raw Proto-DUNE data with Uniform Manifold Approximation and Projection
Ashley Marines

UG_Poster-0068 | Barefoot to Shod: Understanding Children's Gait Kinematics in Different Footwear Conditions
Samantha Martinez

UG_Poster-0069 | Assessing the Surface Evaporation over the Gulf of Mexico: Influence of the Loop Current Variation
Alexander Ray

Graduate Posters

GR_Poster-0001 | Common Bottlenose Dolphin Acoustics in Diverse Foraging Contexts
Emily McGhee

GR_Poster-0002 | From "Old Age" to "New Sage" Studying How Adults 55+ Learn
Shelby Sharpe

GR_Poster-0003 | Addressing Elementary Students Academic Learning Losses Post Covid-19
Mary Keene

GR_Poster-0004 | Mammograms in Medically Underserved Women: Does Education and Shared Decision-Making Improve Patient Interest in Mammograms?
Olivia Smith

GR_Poster-0005 | Establishing A Point of Beginning - a Novel Approach to Online Asynchronous Geomatics Education for Texas High School Students
Aurelia O'Neil

GR_Poster-0006 | What Birds Tell Us: Monitoring Birds in Cacao Agroforests of Western Ecuador Using Bioacoustics
Rebecca Davis

GR_Poster-0007 | Using Vibrio alginolyticus Isolates to Determine the Efficacy of Plant Tinctures to Inhibit Vibrio spp.
Brian Kostoch

GR_Poster-0008 | Prediction of Ultimate Bearing Capacity of Shallow Foundations Using Monotonically Constrained Neural Network
Oluwaseun Ogunfile

GR_Poster-0009 | Early Childhood General Education Novice Teachers and the Inclusive Classroom-Pilot Study
Kimberly C Juneau

GR_Poster-0010 | What is the Most Effective Teaching Strategy for English Speakers to Master Mandarin Pronunciation by Applying Pinyin?
Yun Lee

Poster Presentations and Art Gallery

GR_Poster-0011 | Obesity, Nutrition, Physical Activity, and Neighborhood Environments in the City of Corpus Christi, TX

Emily Brennan

GR_Poster-0012 | Assessment of Water Quality in a Model Coastal Bend Canal Community

Nora Bleth

GR_Poster-0013 | Does the environment or social media affect our teens emotional health?

Kelci Ellis

GR_Poster-0014 | AI-powered Urban Water System: Modeling Spatio-temporal Dependencies with Graph Neural Networks

Sai Koushik Katakam; Qiming Guo

GR_Poster-0015 | Synthesis of Amphiphilic Naphthalimide-Based Fluorescent Molecular Sensor

Victoire Delattre

GR_Poster-0016 | Technology in Elementary School Education

Nia Balarin

GR_Poster-0017 | Characterizing Cyanobacterial Mats on Wind-Tidal Flats at Padre Island National Seashore

Zahra Hasan

GR_Poster-0018 | Prevalence and Prevention of Suicidality in Adolescents

Joely Diaczenko

GR_Poster-0019 | Epidemic modeling on networks

Aleksei Krasnikov

Poster Presentations and Art Gallery

GR_Poster-0020 | Synthesis and purification of novel bifurcated amino acid- based surfactants

Angelina Garcia

GR_Poster-0021 | Nurdle Rush - From Gamer to Citizen Scientist

Khoi Nguyen

GR_Poster-0022 | Physical Properties of Mixed Cationic and Anionic Amino Acid Surfactants

Rita Muniz

GR_Poster-0023 | Same Results, Twice the Work? The Cardio-Metabolic Differences Between Circuit Training and Treadmill-Based Intervals

James T. Morales; Joshua C. Monrad

GR_Poster-0024 | Quantifying the distribution of a key microarthropod across the coastal transition gradient in Oso Bay wetlands

Peyton Calderon

GR_Poster-0025 | The Influence of Sensation-Seeking Behaviors in Predicting Suicidal Ideation in Gen-Z Adolescence

Justen Schroeder

GR_Poster-0026 | Drivers of Biofouling Community Composition and Vulnerability to Invasion

Olivia Hughes

GR_Poster-0027 | Exploring Psychedelic Potentials: A Neurophysiological Investigation of Psilocin in an Invertebrate Model

Hannah Yarbrough

GR_Poster-0028 | A Multi-Species Assessment of the Ingleside Sandsheet Pond Habitat Using Remote-Sensing Observation Methods

Aubany Moon

Poster Presentations and Art Gallery

GR_Poster-0029 | Research Proposal Project: Investigating the Relationship Between Adolescent Mental Health, Screen Time, and Body Image Perceptions

Dominique Herrera Pena

GR_Poster-0030 | Nitric oxide effects on neural correlates of long-term sensitization in the mollusk Aplysia

Landrue C Richards

GR_Poster-0031 | Assessing Invasive Feral Swine Diet in the Aransas and Copano Bay Wetlands

Brenna Edwards; Annalisa Hernandez

GR_Poster-0032 | Development of Seagrass Epiphyte Image Analysis to Detect Changing Environmental Conditions

Carissa Pinon

GR_Poster-0033 | Solubility and aggregation behaviors of dicarboxylic mixed micelle amino acid-based surfactant systems

Xitlali Gallegos-Cruz

GR_Poster-0034 | Creating a Geo-spatial Map from the Quantification of Light Attenuation

Laura Ramirez

GR_Poster-0035 | Optimizing Orbitrap-based isotopic analysis of nitrate by coupling Orbitrap-MS with chromatographic separation techniques

Allyson Girard

GR_Poster-0036 | Managing time-sensitive Applications in Vehicular Digital Twin Environment Using Serverless Computing

Abdolazim Rezaei

GR_Poster-0037 | On modeling brittle fracture within the context of strain-limiting theories of elasticity

Maria Pieo Fernando

Poster Presentations and Art Gallery

GR_Poster-0038 | Digital Elevation Model Generation using Highly Oblique Stereo Imagery via Structure from Motion Photogrammetry in a Coastal Area
Mona Hajjesmaeeli

GR_Poster-0039 | A quick method for assessing algal blooms at the sea surface microlayer (SML) of Corpus Christi Bay
Maira Afzal

GR_Poster-0040 | Coastal Community Resilience: Post-Disaster Depression and Anxiety in a Texas Ethnic Minority Community
Ana Marisa Guerrero

GR_Poster-0041 | Exploring Virtual Reality's Potential in Enhancing Letter Recognition & Self-Literacy Among Dyslexic Elementary Students
Lawrence Izuagie; Aurelia O'Neil

GR_Poster-0042 | Examining the Validity of the Aquatic/Terrigenous Ratio (ATR): A Precursor to Harmful Algal Blooms
Wayne Hodge

GR_Poster-0043 | Pilot Testing of Survey Instrument for School Teacher's Retirement Decision
Rizwan Shaikh

GR_Poster-0044 | Pilot study of Effects of Vitamin D levels and Maximal Aerobic Power in NCAA Division I Basketball Athletes
Leah Rae Solis

GR_Poster-0045 | Vitamin D Levels and the Effect on Muscular Power
Emily Ramirez

GR_Poster-0046 | Sun Exposure, Skin Phenotype, and Nutrition Sources on Vitamin D Levels in Division 1 Men's Basketball
Hunter Alonzo

Undergraduate Artistic Displays

UG_Art-0002 | Celestial Navigation
Jazlyn Voorhees

UG_Art-0003 | With Me
Sarah Hervert

UG_Art-0004 | Suspect Botany
Danielle Griffin

UG_Art-0005 | Whimsy and wonder: fusing materials to make sculpture.
Judy Metcalf

UG_Art-0006 | Doll Making and Design
Angela Owens

UG_Art-0009 | Got Plastic?
Amber Basaldu; Alina DeJesus; Misty Gonzalez

UG_Art-0010 | First United Methodist Church
John Conyers

UG_Art-0011 | Portfolio
Lawson Love

UG_Art-0012 | Artwork Showcase
Daniel De Leon

UG_Art-0013 | The Ballad of Maria Martin Lighting Design
Mark Capuano; Robert Wilt

Graduate Artistic Displays

GR_Art-0001 | An Investigation into Allegorical Storytelling
Ashley Burnett

GR_Art-0002 | Artificial Aesthetics: Challenging Art with AI
Ian Manseau

GR_Art-0003 | Unveiling personal narratives through surreal imagery
Mariana Ruvalcaba Cruz