**Student Research Week 2022**

**Mon Mar 21, 2022**

**12pm - 1pm**  
*SRW Opening Ceremony*

*Where:* MSC 2406 B  
*Calendar:* Student Research Week 2022  
*Created by:* Kara Thomas  
*Description:*  
https://docs.google.com/forms/d/1COPumtH_RgfOkjiRdpvhv5reQleLG2Ko5umByK5BS7Z0/edit

**1:20pm - 3pm**

**[GPP] Economics, Humanities, Literature, Arts & Social Sciences Graduate & Professional Poster Session**

*Where:* MSC 2400  
*Calendar:* Student Research Week 2022  
*Created by:* Kara Thomas  
*Description:*  
Monday, March 21 1:20 PM - 3:00 PM: Economics, Humanities, Literature, Arts & Social Sciences [11]; Judges: Angie Dunn & Ms. Sarah Peoples; Mr. Wesley Lim, Rohan Gupta, Peter Lin & Antara Dattagupta; Virtual reality-based cognitive exercises to enhance attention and focus; 2 Mr. Matthew Klein; Parental Perceptions of Social Anxiety and Social Relationships of Children with Autism During the COVID-19 Pandemic; Ms. Yanai Yvette Otero; La Porte; Reducing Distracted Driving by Promoting Safe Strategies in a Driving Simulator; 4 Ms. Dun-Ya Hu, Sowmiya Selvaraju & Natsuka Kobayashi; What are we (un)willing to talk about? Topic choice in relation to gender and conversations; 5 Mrs. Juliet Mariam Nyanamba & Mr. Thomas Kar Von Buettners Effect of Social Support on Native American STEM Students' Life Satisfaction; 6 Dr. Chi-Hsuan Sung; A dysbiosis index to evaluate the fecal microbiota in healthy cats and cats with chronic enteropathy; 7 Ms. Noelle McGehee; The Healthy Immigrant Effect and Its Implication on American Health; 8 Ms. Emily Strogin; The Relationship Between Man and the Seain the Minoan Culture; 9 Ms. Syeda Fatima Sanaullah, Brittany Ashley Garcia & Faraz Karim Jivraj; Diabetes Prevalence in the American Indian/Alaskan Native (AI/AN) Population - Systematic Review; 10 Ms. Megumi Tanabe; Spatial Analysis of Emergency Medical Services by Entity Type and Demographic Characteristics in Texas; 11 Mr. Rakibul Ahasan; Assessing the Accessibility to the Proposed Metro Rail: The Case of Dhaka, Bangladesh

**1:20pm - 3pm**

**[UP] Business, Management & Agriculture Undergraduate Poster Session**

*Where:* MSC 2400  
*Calendar:* Student Research Week 2022  
*Created by:* Kara Thomas  
*Description:*  
Monday, March 21 1:20 PM - 3:00 PM: Business, Management & Agriculture [10]; Judges: Mr. Dinesh Phuyal & Mr. James McCoy; Blake Andrew Ratliff; Project EMPOWER Dashboard Development; 13 Mr. John Cleary; Course Trader; 14 Mr. Sangjun Lee; Causes of fund-raising in collegiate athletic programs; 15 Ms. Emily Brieno, Lindsey Donaldson, Sierra Sanders, Erica Emig & Ethan Hoasjoe; Optimizing Planting Dates for Industrial Fiber Hemp (Cannabis sativa L.) in Southeast Texas; 16 Mr. Michael Singh; Development of Methodology for Biomechanical Evaluation of a Novel Equine Hock Arthrodesis Technique; 17 Ms. Sarah Elisabeth Judkins; Growing Gardens, and Communities: Mitigating Impacts of Food Insecurity Through Urban Agriculture; 18 Mr. Aidan Brown; High-resolution Global Flash Drought Monitoring in Near-Real-Time; 19 Mr. Alexander Anderson & Samuel Dixon; Group Testing for Food Safety; 20 Ms. Ariana Lazo; SLAKES Smartphone Application as an Indicator of Soil Organic Carbon; 21 Mr. Ross Ray; The use of UAV-based remote sensing to accurately predict cover crop biomasses
1:20pm - 3pm  [UP] Life Sciences Undergraduate Poster Session

**Where:** MSC 2400  
**Calendar:** Student Research Week 2022  
**Created by:** Kara Thomas  
**Description:**  
1:20 PM - 3:00 PM: Life Sciences [20]; Judges: Mrs. Katie Sanbonmatsu, Nirjhar Ruth Ghosh & Dr. Angela Hawkins  
22Ms Alexandria NaultChelexMethod DNA Extraction for Haplotyping Varroa destructor  
23Ms Ayasha Nagaria & Haley PrzespolewskaInhibition of the Classical Pathway of Complement by BBK32-like proteins in Relapsing Fever Borrelia  
24Ms Nicole Chavez & Ms Breanna Reese Chavez Relationship Between Gifted and Talented Students and Gifted and Talented Expenditures with Number of Nutrition Education Goals in School District, Â’s Local Wellness Policies  
25Ms Elizabeth Culpepper Analyzing R&D Mentorship Program Outcomes to Determine Satisfaction of Project-Based Virtual Mentorships  
26Ms Emily Grace LeekoCharacterizing flea community diversity on wildlife within Sam Houston National Forest  
27Ms Erin McDaniel Characterizing flea community diversity on wildlife within Sam Houston National Forest  
28Ms Gabriela PollardSearching for the Functions of Newly Formed (De novo) Genes in Arabidopsis by Phenotyping  
29Ms Hannah Lynn Mitchell, Sarah Song, Coralie Domergue & Gabrielle DavisEvolution of sexual systems in the mouse family Orthotrichaceae  
30Ms Jaqueline GalvanThe effect of amyloid beta variants on sleep and longevity in Drosophila  
31Mr Joseph ChenThe Colocalizationator: A novel ImageJ plugin for automated cell colocalization analysis  
32Mr Julius Jang Effects of Developmental Restriction on Neural Progenitor Cell Graft-Derived V2a Interneuronsafter Spinal Cord Injury  
33Ms Kelly Renae Thomas Dose Effects of Paternal Alcohol Consumption on Placentation  
34Ms Maray Valle Development of a computational method to analyze mitochondrial calcium signals in astrocytes  
35Ms Olivia Fay Kibbey & Maria Muffoletto Development of a computational method to analyze mitochondrial calcium signals in astrocytes  
36Ms Olivia Fay Kibbey & Maria Muffoletto Development of a computational method to analyze mitochondrial calcium signals in astrocytes  
37Ms Parker SmithNF-κB-Inducing Kinase (NIK) Mediates Neuronal Function and Glioblastoma Tumor Microenvironment  
38Ms Syed Ali RanaHumanity's Largest Migration in nearly 7,000 years  
39Ms Sydney Martinez Determining the effects of Nosema Ceranae infection on honey bee (Apis Mellifera) premature self-removal behavior.  
40Ms Sofia Elisa Patino Hernandez Light Produces Calcium Waves in Nature

1:30pm - 4:30pm  
**[GPO] Business, Management & Agriculture Graduate & Professional Student Oral Session**

**Where:** MSC 2501  
**Calendar:** Student Research Week 2022  
**Created by:** Kara Thomas  
**Description:**  
Monday, March 21  
Rm 2501: Business, Management & Agriculture [6]; Judges: Mr. Kyle J Hickman-Brown & Dr. Yuhua Farnell  
1:30 PM - 1:45 PM  
1:50 PM - 2:05 PM  
2:10 PM - 2:25 PM  
2:40 PM - 2:55 PM  
3:00 PM - 3:15 PM  
3:20 PM - 3:35 PM  
3:40 PM - 3:55 PM  
4:00 PM - 4:15 PM

[More abstracts listed]
1:30pm - 4:30pm  [UO] Engineering, Technology & Material Sciences Undergraduate Oral Session A

**Where:** MSC 2503
**Calendar:** Student Research Week 2022
**Created by:** Kara Thomas

**Description:**
Rm 2503: Engineering, Technology & Material Sciences (A) [7]; Judges: Dr. Chernosky & Mr. FNU Aakash1:30 PM - 1:45 PM 1Mr Mack Wesley ClevelandPersistence of negative vacancy and self-interstitial formation energies in atomistic models of amorphous silicon 1:50 PM - 2:05 PM 2Mr Nathaniel Fernandes & Seongmi Song Underwater Treadmill Gait Event Detection Using Inertial Measurement Unit Sensors 2:10 PM - 2:25 PM 3Ms Ashley Nicole Person Modification of the Electrical and Transformation Properties of Thin Film Vanadium Dioxide due to irradiation and Film Substrate Type 2:30 PM - 2:45 PM 4Ms Rebecca Kate Cunningham & Aryan Pai The Invisible Technology Behind Our Lives 2:50 PM - 3:05 PM 5Ms Anushka Bhawsinka Investigation of Left Ventricular Assist Device (LVAD) Outflow Cannulation 2D and 3D Measurements in Heart Failure Patients 3:20 PM - 3:35 PM 6Ms Abigail Mckinsey Rolen Numerical Simulation of the effect of wave characteristics on PTO of Point Absorber Wave Energy Converter 3:40 PM - 3:55 PM 7Mr Charles Horton, Nikolas Turman, Alexander Ling, Andrew Wallace, Jared Clifford & Joshua Chong Adaptive Compression

1:30pm - 4:30pm  [UO] Health & Medical Sciences Undergraduate Oral Session

**Where:** MSC 2502
**Calendar:** Student Research Week 2022
**Created by:** Kara Thomas

**Description:**
Monday, March 21 Rm 2502: Health & Medical Sciences [8]; Judges: Dr. Abhishek Sau, Dr. Adam Case & Mrs. Eleni Vonda 1:30 PM - 1:45 PM 1Ms Yixin Zhang Heart Rate Variability as a Biomarker for Working Memory Performance and Fatigue Perception 1:50 PM - 2:05 PM 2Ms Alexa Lynn Frei Decreased Incidence of Clostridioides difficile Infection during the COVID-19 Pandemic in a National Sample of United States Community Hospitals 2:10 PM - 2:25 PM 3Ms Esha Kothapalli Effect of Climate and Land Use on the Spatial Distribution of Ehrlichia chaffeensis Infections in the United States 2:30 PM - 2:45 PM 4Mr Kevin Yao Tumor cell intrinsic and extrinsic features predict prognosis in estrogen receptor positive breast cancer 3:00 PM - 3:15 PM 5Mr Khang Le Proteomic diversity and pathway enrichment analysis on alcohol-sensitive proteins of fetal neural stem cell derived extracellular vesicles 3:20 PM - 3:35 PM 6Ms Elizabeth Harrison The Role of the Fragile X Mental Retardation Protein Insynaptic Changes Observed on D1 Dopamine Receptor Expressing Striatal Medium Spiny Neurons Following D1-Agonist Exposure: An Investigation Incortical-Striatal Co-Culture 3:40 PM - 3:55 PM 7Mr Nicolas King Goff Using Raman Spectroscopy to Differentiate Between Various Genospecies of Borrelia in Mouse Blood 4:00 PM - 4:15 PM 8Ms Andrea Joyce Malabay Examining Disparities in Incidence of Colorectal Cancer by Race, Ethnicity, Sex, and Site
2pm - 3pm

[D] Research as a Career: Do's and Don'ts - Victor Ugaz and Dr. Murray

Where: MSC 2406 B
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
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(Amsterdam Netherlands) 213.244.140.110 (Germany) 103.122.166.55 (Australia Sydney)
103.122.167.55 (Australia Melbourne) 149.137.40.110 (Singapore) 64.211.144.160 (Brazil)
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https://tamu.zoom.us/skype/99128039543

3pm - 4:40pm [UP] Engineering & Technology Undergraduate Poster Session

Where: MSC 2400
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
3:00 PM - 4:40 PM: Engineering & Technology [15]; Judges: Mr. Rohan Wilkho, Ms. Crystalh Alvarez & Ms. Debra Martogi
42Ms Abigail Byrd Eliciting Providers’ Feedback on Barriers and Opportunities Related to Remote Patient Monitoring in Underserved Communities
43Ms Alexandra Christian Long Dual-Layer Mobile EEG to Monitor Human Brain Activity During Gait
45Ms Harlyn Nguyen & Russtam Wafayee Central mechanism during fatiguing exercise under the influence of cognitive stress
46Ms Hannah Faith Rudewick & Tyler Pillman Developing a method to scale the degree of packing in MAP scaffolds
47Ms Jasmine Fross EBNA1 vs LANA Relative Binding Free Energy from Molecular Dynamics Simulations
51Ms Rachel Stacey Glucose Coach Multimedia Content
52Ms Rachel Gruenbaum Development of Impact Testing Apparatus to Evaluate Novel THA Femoral Broaches
53Ms Zachary Helton VR Handtracking for Robotics Applications
54Mr Jeremy Lee Thomas Multi-head Bioprinter Construction Through Conversion of Commercial 3D Printers
55Mr Jonathan Resendez Burnout In Healthcare Workers
4pm - 5pm

[D] Diversity and Inclusion in Research - Dr. G Zapata and Dr. Ian Murray

Where: MSC 2406 B
Created by: Kara Thomas
Description:
https://docs.google.com/forms/d/1COPumtH_RgfOkjiRdpnevQLeLG2Ko5umB/yK5BS7Z/edit

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- Meeting ID: 977 3194 9395
- Toll Free: 888 788 0099
- International numbers: Join from an H.323/SIP room system

Tue Mar 22, 2022

9am - 12pm

[GPO] Physics, Mathematics, Engineering, Technology & Computer Sciences Graduate & Professional Student Oral Session A

Where: MSC 2501
Created by: Kara Thomas
Description:
Rm 2501 - Physics, Mathematics, Engineering, Technology & Computer Sciences
(A) [7]; Judges: Dr. Jeffrey Kuan, Akshay Sarvesh & Mr. Vigneshwaran Radhakrishnan
9:00 AM - 9:15 AM
Mr Abdullah F. Al-Aboosi
Comprehensive Techno-Economic-Environmental Performance Assessment of a Rooftop Grid-Connected Photovoltaic System: A case study of Texas, USA

9:15 AM - 9:30 AM
Dr. Ahmed Atef Abdelsatar Ahmed Hamada
Improved Ocean Wave Harvesting through High Fidelity Numerical Modeling coupled with Wave Tank Experiments

9:30 AM - 9:45 AM
Mr Ahnsei Shon
Fully Implantable Wireless Neural Recording and Stimulation System for Locomotor Rehabilitation

9:45 AM - 9:55 AM
Mrs Ashley Moran
Initial Characterization of Shock Front Emission

9:55 AM - 10:00 AM
Ms Bahareh Alizadeh Kharazi & Diya Li
Enhancing Disaster Resilience in Coastal Regions Using Artificial Intelligence and Crowdsourcing Data Collection

10:00 AM - 10:15 AM
Mr Hyeonki Hong
Development of UHPC Mixtures and Production of Full-Scale Pretensioned Bridge Girders
9am - 12pm  
[UO] Engineering, Technology & Material Sciences  
Undergraduate Oral Session B  
**Where:** MSC 2503  
**Calendar:** Student Research Week 2022  
**Created by:** Kara Thomas  
**Description:**  
Rm 2503: Engineering, Technology & Material Sciences (B) [7]; Judges: Mr. James B Palacios & Dr. Hatice Ceylan Koydemir  
9:00 AM - 9:15 AM: Mr. Kevin Yao  
Intelligent Augmented Lifelike Avatar App for Virtual Physical Examination of Suspected Strokes  
9:15 AM - 9:30 AM: Mr. Matthew Meyer  
Correlation Study Between Activity Level and Stress in College Students  
9:30 AM - 9:45 AM: Mr. Manuel A Suarez  
Tandem Catalysts for Selective CO2 Reduction Reaction  
9:45 AM - 10:00 AM: Ms. Hong Nhi Nguyen  
Generation and characterization of filil deletion mutant in Escherichia coli  
10:00 AM - 10:15 AM: Ms. Huaxing Ren  
Deep Learning on Automatic Object Counting  
10:15 AM - 10:30 AM: Ms. Simran Sethi & Sang Kim  
Help realxation media subproject  
10:30 AM - 10:45 AM: Mr. Thomas Cheung  
Investigation of Homogeneous Degradation in Shape Memory Polyurethane Foams used in Embolic Applications  

9am - 12pm  
[UO] Life Sciences Undergraduate Oral Session A  
**Where:** MSC 2502  
**Calendar:** Student Research Week 2022  
**Created by:** Kara Thomas  
**Description:**  
Rm 2502: Life Sciences (A) [5]; Judge: Mrs. Kalina Eskew  
9:00 AM - 9:15 AM: Mr. Bryan Liu  
GHSR deficiency provides anti-inflammatory effect against fructose-induced inflammation  
9:15 AM - 9:30 AM: Mr. Jarod Linus Richard Perez  
Varroa destructor and its effects on the fat body development of Apis mellifera drones  
9:30 AM - 9:45 AM: Ms. Tatyana Canales  
Spatio-temporal Patterns and Influencing Factors of Florida Panther Roadkills  
9:45 AM - 10:00 AM: Ms. Emily Grace Glowski  
Who are these bacterial survivors after electron beam treatment?  
10:00 AM - 10:15 AM: Ms. Jordan Marie Moore  
A new species discovered in Aggieland: Morphological and molecular evidence reveals a new gregarine parasite (Apicomplexa) from crickets collected at Texas A&M campus  

9am - 12pm  
[UO] Life Sciences Undergraduate Oral Session B  
**Where:** MSC 2504  
**Calendar:** Student Research Week 2022  
**Created by:** Kara Thomas  
**Description:**  
Rm 2504: Life Sciences (B) [6]; Judges: Mrs. Jill Wright Skrobarczyk & Mr. Raymond Peter Dom  
9:00 AM - 9:15 AM: Maximos Chin  
MORPHOLOGICAL TRENDS IN EXPERIMENTAL AND SIMULATED POPULATIONS OF HYBRID SWARMS  
9:15 AM - 9:30 AM: Ms. McKaela Whilden & Brittany Usoff  
Comparing Nosema levels in wild and managed honey bee (Apis mellifera) populations at Welder Wildlife Refuge  
9:30 AM - 9:45 AM: Mr. Steven Graham  
Investigations of the Blow Fly Lucilia eximia (Wiedemann) (Diptera: Calliphoridae) for Use in Forensic Entomology: Nutrition Impacts Longevity and Temperature Impacts Development  
10:00 AM - 10:15 AM: Ms. Teresa Elizabeth Sullivan  
License to Kill: Study of the lysis inhibition mechanism in Bacteriophage N410  
10:15 AM - 10:30 AM: Ms. Laura Marmolejo  
Rumor has it: exposure to plant volatiles suppresses neighboring plant defenses against herbivory
9am - 10:40am

[UP] Earth, Chemical & Material Sciences Undergraduate Poster Session

Where: MSC 2400
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
9:00 AM - 10:40 AM: Earth, Chemical & Material Sciences [16]; Judges: Mr. Peter Mikhail, Mr. Joshua Powell & Mr. Gael Nkwain
Brenda Almanza
Effect of Light Type on Insect Diversity and Biomass for Bat Habitat Enrichment
Ms Jennifer Trevino
Unconventional Water Resources: ATexas Perspective
Ms Brooklyn Green
Oxidation of Bismuth and its Effect on Dissolution
Ms Catherine Elizabeth Poates
Trends in responses of stable isotope enriched biological reference standards over time in quantitative liquid chromatography-spectrometry (LCMS/MS)
Ms Elisa Del Carmen Guillen & Sonia Viramontes
Water Tower Caches for the Rio Grande and the Colorado River: Rock Glaciers in The San Juan Mountains, Colorado
Ms Emily Erin Edge
Phytoplankton Behavior Analyzed Through a Stable Isotope Record of Deep-Sea Proteinaceous Coral in The Pacific
Ms grace Hadamed
Microbial Cell
Ms Hannah Goble
Development and Characterization of a Cu Nitrene Photoprecursor
Ms Mary Thompson
Role of weak layers in innumerical models of the Tauneni Landslide Complex, Hikurangi Margin, New Zealand
Mr Charles Mason Shoalmire
Ragone Relationships in Thermal Batteries to Evaluate Phase Change Material Composite Design
Ms Norely Alejandra Faz
Microbial Abundances and Metabolism in the Gulf of Mexico
Ms Joelle Ann Roman
THE IMPACT OF HURRICANE HARVEY ON SEAWATER MICROBIAL COMMUNITIES ALONG THE TEXAS GULF COAST
Ms Sahana Patel
Synthesis and Characterization of a Copper Azide as a Photoprecursor for Reactive Cu-N bonds
Ms Sonia Viramontes
Rio Grande and the Colorado River Water Resources: Rock Glaciers in the San Juan Mountains, Colorado
Mr Joshua Michael Watzak
Variability and Precision of Acoustic-to-Seismic Coupling from Explosions Recorded across Albuquerque Seismological Laboratory

10am - 11am [D] Interview Tips and Tricks - Mrs. Yeager and Mr. Rainey

Where: MSC 2406 B
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
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11am - 12:40pm

[GPP] Business, Management & Personnel Psychology
Graduate & Professional Student Poster Session
Where: MSC 2400
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:

11am - 12:40pm

[UP] Health & Medical Sciences Undergraduate Poster Session A
Where: MSC 2400
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
11:00 AM - 12:40 PM: Health & Medical Sciences (A) [18]; Judges: Mr. Patrick Ryan, Dr. Khaled Moustafa & Dr. Aishatu Yusuf24Mr Clifford Moshay Neutrophil involvement in Parkinson's Disease 25Ms Demi Khine Waworuntu & Alex Phan Reprogramming Collaborative Cross Mouse Embryonic Fibroblast Cells into Induced Pluripotent Stem Cells Using the Sendai Virus 26Ms Isabella Alvarado Enzymatic Layer-by-Layer Coatings with Antibacterial Activity 27Ms Marielle Hicbanh PL Loaded Microcarriers for Promotion of Cell Proliferation 28Mr Michael Marquis Remote patient monitoring workflows 29Ms Payton Grace Smith A role for BBK32 in antibody-mediated clearance of Borrelia burgdorferi 30Mr Abhinav Ramesh Vadassery Do low levels of cholesterol lead to increased levels of T cells, thus indicating the presence of cancer? 31Ms Andrea Joyce Malabay, Magdlen Lincks, Youngjin Kim & Julia Wise Small-Scale Community Gardening and Examining the Effectiveness and Impact on the Community 32Mr Alan Hieu Nguyen Pham Examining the Effects of Maternal, Paternal, and Dual Parental Alcohol Consumption on Spleen Development 33Mr Alexander Huynh, Alifa Vadsaria & Katie Jones A Diagnostic Tool to Quantify Fatigue and Cognition in Patients with TBI 34Ms Alicia Karina Stutz Omega-3 polyunsaturated fatty acid supplementation increases muscle mass and improves protein homeostasis in patients with Chronic Obstructive Pulmonary Disease: a Randomized Clinical Trial 35Mr Aidan Slagter The Impact of Parental Ethanol Intake on Hippocampal Development in Offspring 36Ms Autumn Niemi Peptide Lv promotes the trafficking and insertion of KCa3.1 to endothelial cell membranes through ERK signaling 37Ms Diana Spence Betancourt, Michael Landavazo, Ana Anguiano & Mia Putnam Past & Present Food Mechanisms of Resilience Used by Marginalized Groups 38Ms Angelina Baltazar Analysis of Acute and Chronic Timepoints of Transplanted Neural Progenitor Cells in a Model of Spinal Cord Injury 39Ms Grace Alaine Giddings Inducing an anesthetic state blocks pain induced hemorrhage after traumatic brain injury (TBI) 40Ms Hailey Elizabeth Clayton A histological approach to evaluating heavy metal damage in the Collaborative Cross 41Ms Kelly Dickerson, Abi Castillo, Michelle Ly, Monica Aybar, Mia Weidenbach & Kathy Tran Nutritional Health Among College Students 42Mr Joshua Moses & Katie Vo Effects of developmentally-restricted neural progenitor grafts on recovery of function following spinal cord injury
1:00 PM - 2:40 PM: Health & Medical Sciences (B) [23]; Judges: Mr. Ankith Sharma, Ms Megan Humphries & Dr. Angela Mulcahy

Hannah Thomas
Developmental restriction alters the cell composition of neural progenitor grafts transplanted into the spinal cord.

Ms Hannah Smith
Combating Fungal Infections by Targeting Phosphatidylinositol Transfer Proteins

Ms Hannah Thomas
Developmental restriction alters the cell composition of neural progenitor grafts transplanted into the spinal cord.

Ms Jacqueline Carr
ALTERATIONS OF HDAC EXPRESSION IN THE BRAIN AFTER TRAUMATIC BRAIN INJURY

Jasmine Tran, Ayesha Nagaria, Emily Lankford & Lily Long
Walk Across Texas! Adult - College Edition - Helping TAMU Students Be More Active

Ms Julie Krbashyan
Determining Stress Moments From Heart Rate Data

Ms Kelby Kosel
Characterization of an in vitro model of cellular senescence

Ms Lauren Rubilynne Battershell, Raven A. Wierczowska, Maielle P.K.J. Engelen, Sunday Y. Simbo & Nicolaas E.P. Deutz
Characterization of an in vitro model of cellular senescence

Ms Madeline Danielle Huber
DEVELOPMENTAL DISTRIBUTION OF MICROGLIA IN THE PEDIATRIC BRAIN

Mariana Itzel Cantú, Vanessa Ismael, Sophia Zhong, Erica Masi, Alyssa Delano & Leah Majzoubi
A Comparison and Contrast of the 1918 Flu Pandemic and COVID-19

Mr. Matthew Dao
Can the heated hand box technique be used to accurately study blood gasses, metabolic substrates, and hormones?

Ms Meghan Si, Megan Thomas, Daniela Wong Duarte, Sophia Ferrer, Holly Thill & Matthew Benjamin Crespo
Immune Landscape of ERBB4 Deficient Colon Tumors

Ms Mary Katherine Smith
Sequence and lineage characterization of major histocompatibility complex class I genes in Atlantic herring using comparative genomic approach

Ms Mikayla Brianna Monk
Nurturing Future Physician-Investigators in Academic Medicine with a Medical Education Scholarly Research Program

Ms Nimisha Srikanth
Craniofacial Patterning in a Model Maternal, Paternal, and Dual Parental Alcohol Consumption

Ms Ruth Mitchell
Presence of Obstructive Sleep Apnea in COPD patients is Associated with Increased Risk for Cardiovascular Disease, But Does Not Affect Functional Performance and Well-being

Mr. Hayden Reitz
Evaluating Developmental Toxicity via Organ Weights in a Dual Parental Model of Alcohol Consumption

Ms Rachel Marie Toler
Examining Variation in Activity and Circadian Rhythm Due to Dual Parental Alcohol Exposure

Ms Shunmeng Cui
The Impact of Maternal, Paternal, and Dual-Parental Alcohol Exposure in Developmental Disorders

Mr. Jacob Stallman & Ethan Kerim
Chemogenetic Alleviation of Sensory Hyperactivity to Improve Functional Outcomes After Spinal Cord Injury

Mr. Tyler Douglas Brown
Long-lasting effects of altered developmental programming of cardiac tissue in a maternal, paternal, and dual parental model of alcohol consumption
1:30pm - 4:30pm

**[GPO] Physics, Mathematics, Engineering, Technology & Computer Sciences**

**Graduate & Professional Student Oral Session B**

**Where:** MSC 2501  
**Calendar:** Student Research Week 2022  
**Created by:** Kara Thomas  
**Description:**
Rm 2501 - Physics, Mathematics, Engineering, Technology & Computer Sciences  
(B) [7]; Judges: Ms. Akanksha Baranwal & Mr. Akshay Mete  
1:30 PM - 1:45 PM Ms Madeline Smetzer  
Nitric Oxide Planar Laser Induced Fluorescence Rotational Thermometry  
Characterization of a Hypersonic Boundary Layer  
10 PM - 2:25 PM Mr Omar Maddouri  
Robust importance sampling for error estimation in the context of optimal Bayesian transfer learning  
Makerspaces: 40 PM - 2:55 PM Ms Akib Sarwar & Ashley Stites  
Studying Plume-surface Interaction on the Moon using a one-way coupled DLMC-Lagrangian method  
PM 3:00 PM - 3:15 PM Mr Md Nazmus Sakib  
Artificial Neural Network for Drone Accident Prediction From Physiological Signals  
1:30 PM - 4:30 PM

1:30pm - 4:30pm

**[GPO] Psychology Graduate & Professional Student Oral Session**

**Where:** MSC 2500  
**Calendar:** Student Research Week 2022  
**Created by:** Kara Thomas  
**Description:**
Rm 2500 - Psychology [6]; Judges: Ms. Megan Woodfield & Mr. Chase Gause  
1:30 PM - 1:45 PM Mr Humberto Pena Jr. & Luis Morissette  
Videobased instruction to support employment related social behaviors for university students with intellectual disability  
1:50 PM - 2:05 PM Ms Kristen Jaramillo  
An Intersectional Qualitative Analysis of Transgender and Gender Expansive Employees' experiences with auditory and visual warning alarms  
2:10 PM - 2:25 PM Mr Namgyun Kim, Niya Yan & Moein Razavi  
Restoring workers' sensory responses to auditory and visual warning alarms in real-world through virtual accident experience  
Pre-service Agriculture Education Teacher Efficacy of Trauma Intervention Skills  
3:00 PM - 3:15 PM Mr Stefan Jabez Manoharan  
Rhythmic Finger Tapping Follows Rudimentary Grasping Pattern  
3:20 PM - 3:35 PM Ms Sequoia Naomi Callahan & Nicole Svetlov  
The Effect of COVID-19 on Engineering Students’ Social Interactions: Implications on Academic and Career Development

1:30pm - 4:30pm

**[GPO] Sociology, Economics, Humanities, Literature & Arts Graduate & Professional Student Oral Session**

**Where:** MSC 2502  
**Calendar:** Student Research Week 2022  
**Created by:** Kara Thomas  
**Description:**
Rm 2502 - Sociology, Economics, Humanities, Literature & Arts [6]; Judges: Ms. Jieun Yi & Dr. Jeffrey Morris  
1:30 PM - 1:45 PM Ms Elizabeth Fields Perry  
Visceral Spectatorship, and Performative Spirituality in Medieval Civic Mystery Plays  
1:50 PM - 2:05 PM Mr Michael Tsoi  
Examining Bidding Patterns in Clock Auctions  
2:10 PM - 2:25 PM Mrs Tahereh Boroughhani  
The potential benefits of using Frequency Modulation (FM) system with ESL/bilingual students identified with Attention Deficit Disorder (ADD)  
2:40 PM - 2:55 PM Mr Yanbing Chen  
Critical engagement and its effect on low proficiency adult ESL learners  
15 PM Ms Karen Vannessa Cepeda Rivera  
The Tentettheatre Group: Body, Trauma and Theatre  
3:00 PM - 3:15 PM Dr Nikita Sandeep Wagle  
A Meta-Analysis of Racial-Ethnic Disparities in Treatment Receipt among Hepatocellular Carcinoma Patients in the United States
1:30pm - 4:30pm

[UO] Business, Management & Agriculture Undergraduate Oral Session

Where: MSC 2503
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
Rm 2503: Business, Management & Agriculture [5]; Judges: Ms. Molly Sloan Smith & Mr. Donovan Davis
1:30 PM - 1:45 PM Ms Sena Pecen
Legal Restrictions and Entrepreneurial Spawning: a Relational Look into Non-Compete Policies
1:50 PM - 2:05 PM Ms Wilinia Christina Hamilton
Evaluating Post-Laura and Delta short-term recovery in Southwest Louisiana using Photography
2:10 PM - 2:25 PM Ms Jayda Arriaga, Jack Bradford, Gage Strozier & Rachel Kurian
Signals from DownUnder: Does Belowground Herbivory Modify Aboveground Defenses of Neighboring Plants
2:40 PM - 2:55 PM Mr Jackson Wingert
Comparing Defensive Strategies of Africanized and European Honey Bees Against Common Ant Pests Found in Apiaries

2pm - 3pm

[D] LinkedIn: How to Boost Your Presence - Mrs. Yeager and Mr. Rainey

Where: MSC 2406 B
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
https://docs.google.com/forms/d/1COPumtH_RgfOkiRdpvh5reQleLG2Ko5umByK5BS7Z0/edit
https://tamu.zoom.us/s/96971882761
Or join meeting with the following methods
Phone one-tap
US: +1 346 248 7799 or +1 669 900 6833 or +1 253 215 8782 or +1 929 436 2866 or +1 301 715 8592 or +1 312 626 6799 or 888 788 0099 (Toll Free)
International numbers
Join from an H.323/SIP room system
H.323: 162.255.37.11 (US West) 162.255.36.11 (US East) 115.114.131.7 (India Mumbai) 115.114.115.7 (India Hyderabad)
213.19.144.110 (Amsterdam Netherlands) 213.244.140.110 (Germany) 103.122.166.55 (Australia Sydney)
103.122.167.55 (Australia Melbourne) 149.137.40.110 (Singapore) 64.211.144.160 (Brazil)
69.174.57.160 (Canada Toronto) 65.39.152.160 (Canada Vancouver) 207.226.132.110 (Japan Tokyo)
149.137.24.110 (Japan Osaka)
Meeting ID: 969 7188 2761
Password: 219932
Skype for Business (Lync): https://tamu.zoom.us/skype/96971882761
9am - 10:40am

[GPP] Earth, Chemical & Material Sciences Graduate & Professional Student Poster Session

**Where:** MSC 2400  
**Calendar:** Student Research Week 2022  
**Created by:** Kara Thomas  
**Description:**
9:00 AM - 10:40 AM: Earth, Chemical & Material Sciences [9]; Judges: Dr. Michelle Henderson Pozzi & Dr. Morgan G. Schweller
1. Zehao Chen - Universal Relationship Between Mass Flux and the Properties of Layered Heterogeneity on the Contaminant Flushing Process
2. Pooria Dehghanian - Temperature-Triggered Failure Hazard Mitigation of Transformers Subject to Geomagnetic Disturbances
3. Ms Anita FNU - Regolith Adaptive Modification System (RAMs) to Support Early Extraterrestrial Planetary Landings (and Operations)
4. Ms Bailey Skinner - A Multiple Linear Regression Model of Aragonite Saturation State in the Remote North Pacific
5. Ms Rosa Marie Garcia - Understanding Irrigation Patterns of Public Parks and Recreational Landscapes in College Station, TX

9am - 10am  [I] MSC Informational

**Where:** Rudder Tower 401  
**Calendar:** Student Research Week 2022  
**Created by:** Kara Thomas  
**Description:**
https://docs.google.com/forms/d/1COPumtH_RgfOkjiRdphv5reQleLG2Ko5umByK5BS7Z0/edit

9am - 12pm  

[UO] Physics, Mathematics, & Computer Sciences Undergraduate Oral Session A

**Where:** MSC 2503  
**Calendar:** Student Research Week 2022  
**Created by:** Kara Thomas  
**Description:**
Rm 2503: Physics, Mathematics, & Computer Sciences (A) [8]; Judges: Samiran Sinha & Mohamed Aburweis
1. 9:00 AM - 9:15 AM: Mr Leon Liu, Rebecca Curry, Manav Pandey, Yining Wang & Zichen Litranscrib
2. 9:20 AM - 9:35 AM: Ms Sarah Elizabeth Fross
3. 9:40 AM - 9:55 AM: Mr Nathan c Read, Jon Waterman, Meghana Pothugunta, William Zhao & Jay Lenner
4. 10:00 AM - 10:15 AM: Ms Nicole Svetlov
5. 10:30 AM - 10:45 AM: Ms Paanery Shah & Jayaharini Maheswaran
6. 10:50 AM - 11:05 AM: Mr Matthew Becker, Michael Freaney, Nicholas Mastroberardino, Kunahl Chopra & Ryan Matthews
7. 11:10 AM - 11:25 AM: DecorateVR
8. 11:30 AM - 11:45 AM: Mr Brian Boyang Shao - American Airlines Flight Recommender
9am - 10:40am    [UP] Psychology Undergraduate Poster Session A

Where: MSC 2400
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
9:00 AM - 10:40 AM: Psychology (A) [11]; Judges: Ms. Erika Schmitt & Ms. Megan Woodfield
27Ms Ashley Nicole Starnes
Noncontingent vs. contingent footshock on cocaine seeking in rats
28Ms Eugenia Delgado & Marshall Heath Kincaid
Investigating the Role of Interpretation Biases in Anxiety in a Math-Specific Context
29Ms Allyson Steadman
Depression in Effort Perception
30Ms Anahid Akbaryan & Grace Girgenti
Noncontingent vs. contingent footshock on cocaine seeking in rats
31Ms Anna Marie Trickey, Camila Loudermilk & Sofia Medina
Empathy and Perceptions of Mental and Physical Effort
32Ms Ariana Monterrubio, Vivian Rodriguez, Sarah McFarlane & Noah Reed
Anger and Obstacles: The Facilitation of Goal Pursuit
33Ms Audrey Saculla
Association of Psychological Symptoms, Ethnic Identity, and the Appraisal of Racist Events in Multiracial Young Adults
34Ms Austin Matthew Biehle
The Interaction of Self-Transcendence, Academic Motivation, and Self-Alienation in First-Generation College Students
35Ms Bonnie Ho, Brittany Dunn & Weniy Du
Investigating the relationship between undergraduate students, "persistence intention, mentoring quality and TIMIS psychosocial factors in biomedical sciences"
36Ms Lauren Brooke Dorety, Ashley Chacko & Victoria Trevino
University Fit
37Ms Valerie Vierkant, Chloé Garcia, Felicity Woodson & Vanessa Lul
Effect of acetaminophen on aversive conditioning and attentional bias

10am - 11am

[D] Money Matters: Preparing for Financial Wellness - Mr. Vaaler and Nicholas Kilmer

Where: MSC 2406 B
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
https://docs.google.com/forms/d/1COPumtH_RgfoikjJdphv5reQleLG2Ka5umByK5BS7Z0/edit
https://tamu.zoom.us/s/97094892075
Or join meeting with the following methods
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Phone one-tap: US: +1 346 248 7799 or +1 669 900 6833 or +1 253 215 8782 or +1 301 715 8592 or +1 929 436 2866 or 888 788 0099 (Toll Free) or 877 853 5247 (Toll Free)
Meeting ID: 970 9489 2075
International numbers
Join from an H.323/SIP room system
H.323: 162.255.37.11 (US West) 162.255.36.11 (US East) 115.144.110.17 (India Mumbai) 115.114.115.7 (India Hyderabad) 213.19.144.110 (Amsterdam Netherlands) 213.244.140.110 (Germany) 103.122.167.55 (Australia Sydney)
103.122.167.55 (Australia Melbourne) 149.137.40.110 (Singapore) 64.211.144.160 (Brazil) 69.174.57.160 (Canada Toronto) 65.39.152.160 (Canada Vancouver) 207.226.132.110 (Japan Tokyo) 149.137.24.110 (Japan Osaka)
Meeting ID: 970 94892075
Password: 622557
Skype for Business (Lync)
https://tamu.zoom.us/skype/97094892075
11am - 12:40pm [UP] Psychology Undergraduate Poster Session B

**Where:** MSC 2400
**Calendar:** Student Research Week 2022
**Created by:** Kara Thomas
**Description:**
11:00 AM - 12:40 PM: Psychology (B) [19]; Judges: Mrs. Emily Raibley, Mr. Thomas Von Buettner & Ms. Caitlin Madison 38Ms Hope Jeanes, Li WenJan, Madeline Heisner, Nazim Asani & Noah Reed
Red Light, Green Light: Who goes farther in STEM? A survival analysis of the influence of student race on STEM major retention 45Mr Brandon Watanabe, Yutika Raina & Nikita Nutralapati How well do you know your campus? Examining the relationship between anxiety and spatial ability 46Ms Yutika Raina, Benjamin Schulte & Zach Traylor The Directionality of Self-Efficacy and Performance 47Mr Paul Christopher Rodgers & Hayden Hast An Active Shooter Training Video and the Extended Parallel Process Model: The Role of Dismissive Contexts 48Mr Roberto Navarro-Sanchez & Lizbeth Alavez Examining the frequency of code switching in early childhood 49Ms Ryder Cramer & Di Nguyen The effect of race on the perception of mentalard physical effort 50Ms Suhani ben H Patel, Blaine R. Peters & Seongmi Song Underwater Fluid Forces Increase Theta Band Spectral Power from Human Parietal Cortex During Standing Balance 51Ms Ellery Allen What’s in a name? The (in)accuracy of racial and gender identification 52Ms Emily Elena Martinez Past Driving Experiences Influence on Current Driving Behaviors 53Ms Marissa Manzanarez The Influence of Driving in a Simulator Distracted Driving 54Mr Zhiqi Dong Mindfulness Meditation intervention in ADHD adult 55Ms Saman Siddiqui, Marisa Cuevas, Brian Hinojos & Jacqueline Cardenas Athlete perceptions of hydration when competing on natural grass versus artificial turf in extreme heat 56Ms Sydney Tetzlaff Testing Assumptions about Texting and Driving in a Simulator

1pm - 2:40pm [GPP] Agriculture Graduate & Professional Student Poster Session

**Where:** MSC 2400
**Calendar:** Student Research Week 2022
**Created by:** Kara Thomas
**Description:**
1:00 PM - 2:40 PM: Agriculture [9]; Judges: Dr. Juliana Rangel Posada, Dr. Shuyu Liu & Dr. Taniya Koswatta 10Ms Molly Sloan Smith Immunological influences on reproductive microbiota prior to insemination in postpartum beef cows 11Elyssa Garza Using comparative genomics to understand serpentine tolerance in Cauhtalus amplexicaulis 12Ms Jodie McVane, Lindsey Donaldson, Sierra Sanders, Erica Emig, Ethan Hoas joe & Emily Brieno Optimizing Planting Dates for Industrial Fiber Hemp (Cannabis sativa L.) in Southeast Texas 13Mr Jose Diaz Establishing Practices for Plastic Grown Sod 14Ms Karalee Corbeil Contribution of Ammonia Oxidizing Bacteria and Archaea to nitrous oxide emissions in semi-arid soils 15Mrs Paige Graves Seitz Evaluating Professional Development Needs of Change Agents: Impacts of Online Extension Agent Training in Sustainable Cotton Production 16Ms Shikhadri Mahanta Effect of High-Voltage Atmospheric Cold Plasma Treatment on Germination and Heavy Metal Uptake by Soybeans (Glycine max) 17Ms Sarah Regan Sprayberry A Systematic Review of the Connection between Agricultural Literacy and Nutrition 18Ty Keara Mims Perceptions of COVID-19 Protocols at Texas A&M University
1:30pm - 4:30pm
[GPO] Earth Sciences Graduate & Professional Student Oral Session
Where: MSC 2500
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
Rm 2500 - Earth Sciences [8]; Judges: Ms. Alyssa Schultz & Ms. Daniella Schimmenti1:30 PM - 1:45 PM1Mr Billy Utah Hales Jr.Model-based understanding of coupling riparian vegetation and floodplain sedimentto planform geometries on the lowland meandering river floodplain1:50PM - 2:05 PM2Mr Borja Barbero BarcenillaSpaceflight and microgravity response of plant telomeres and telomerase2:10 PM - 2:25 PM3Ms LidiaMezeiParticipatory Mitigation and Adaptation to Coastal Hazards in United States Settlements: A Critical Review2:30 PM - 2:45 PM4Ms Megan AardemaOzone Dissociation with 226 nm light3:00 PM - 3:15 PM5Mr Najibullah LoodinThe Importance of Data Sharing at the Transboundary Level: A Case Study of Helmand River Basin3:20 PM - 3:35 PM6Mr Rakibul AhasanWhich urban form and what socio-demographic factors? Geographical determinants of urban neighborhood street-level greenery4:00 PM - 4:15 PM7Ms Yinuo WangComparison of Solute and Thermal Dispersion in the Subsurface: Difference and Commonality

1:30pm - 4:35pm
[GPO] Public Health & Impacts of COVID19 Graduate & Professional Student Oral Session
Where: MSC 2501
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:

1:30pm - 4:35pm
[UO] Physics, Mathematics, & Computer Sciences Undergraduate Oral Session B
Where: MSC 2503
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
Rm 2503: Physics, Mathematics, & Computer Sciences (B) [9]; Judges: Trevor Harris & Mr. Swarnabha Roy1:30 PM - 1:45 PM1Mr KHOI A DAO, Ryan Parker, Harshank Patel, Quinn Armstrong & Vinay Abda Smart Food1:50 PM - 2:05 PM2Mr Hanson YuA Survey of Elliptic Curves in Cryptography2:10 PM - 2:25 PM3Mr Albin Kyle Myschic IV Vet Train: Veterans, Äôs Computational Inference of Hirability2:30 PM - 2:45 PM4Alex Wu Gym-Bo: Gym Matching System Effectiveness3:00 PM - 3:15 PM5Mr Sachin ChanchaniLow resource inference in lexically bundled texts: a classification study in caselaw3:20 PM - 3:35 PM6Mr Connor Harold Bowerman Quantum Memory and the Future of Digital Information3:40 PM - 3:55 PM7Mr Logan Knudsen The Euclidean Group4:00 PM - 4:15 PM8Ms Meher Syed, Nicole Svetlov, Hanny Shehadeh & Daniel Silva Enhanced Efficiency of Perovskite Quantum Dot Solar Cells
**Contacts, Student Research Week 2022, Holidays in United States**

**1:30pm - 4:30pm**

**[UO] Sociology, Economics, Humanities, Literature & Arts Undergraduate Oral Session**

*Where:* MSC 2502  
*Calendar:* Student Research Week 2022  
*Created by:* Kara Thomas  
*Description:*  
Rm 2502: Sociology, Economics, Humanities, Literature & Arts [4]; Judge: Ms. Jieun Yi  
1:30 PM - 1:45 PM Mr Austin Rosas: IS ALCOHOL SALES ASSOCIATED WITH ECONOMIC DEVELOPMENT: ANALYZING THE DIFFERENCE BETWEEN DRY AND WET COUNTIES IN TEXAS  
2:10 PM - 2:25 PM Ms BreAnn McClanahan: The Art of Saving What is Left - A Historical Fiction Thriller Analyzing the Effects of Post WWII Rapid Development in Fort Worth, Texas  
2:30 PM - 2:45 PM Ms Sarah Kelly: An Analysis of Adichotomous Laws

**2pm - 3pm**  
**[D] Developing your elevator pitch - Dr. Schweller**

*Where:* MSC 2406 B  
*Calendar:* Student Research Week 2022  
*Created by:* Kara Thomas  
*Description:*  
https://docs.google.com/forms/d/1COPumtH_RgfOkjIRdphv5reQleLG2Ko5umByK5BS7Z0/edit

**2pm - 3pm**  
**[I] Innovation [X] Informational**

*Where:* Rudder Tower 401  
*Calendar:* Student Research Week 2022  
*Created by:* Kara Thomas  
*Description:*  
https://docs.google.com/forms/d/1COPumtH_RgfOkjIRdphv5reQleLG2Ko5umByK5BS7Z0/edit
3pm - 4:40pm
[GPP] Life Sciences Graduate & Professional Student Poster Session

Where: MSC 2400
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
3:00 PM - 4:40 PM: Life Sciences [8]; Judges: Dr. Luc R Berghman & Dr.Isabella Farhy
19Ms Brooke LonaSmithAerosolization Trigger ImmediateAntibiotic Resistance in Bacteria
Ms Elyssa Rae GarzaUsing comparativegenomics to understand serpentine tolerance in Caulanthus
Ms Bing JiangPalatal Electrotactile feedback OutperformsVisual
feedback in Tongue Motor learning22Mrs Kasuni DaundasekaraThe evolutionary-genomic history of genes underlying serpentine tolerance in Caulanthus amplexicaulis var barbara23Ms Lei Zhang
24Ms Angelina HuynhExamining the benefit of tDCS at M1 for protecting new motor memory from interference25Jose Diaz
26Ms Nikhila GollakotaQuantifying large deviations in high frequency ecosystem carbon fluxes to infer
ecosystemdisturbances

3pm - 4:40pm
[UP] Sociology, Economics, Humanities, Literature & Arts Undergraduate Poster Session

Where: MSC 2400
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
3:00 PM - 4:40 PM: Sociology, Economics, Humanities, Literature & Arts (A) [15];
Judges: Dr. Jeffrey Morris, Dr. Maria Escobar-Lemmon & Mr. Kevin Wann
51Ms Mykayla Marek
52Ms Wilinia Christina Hamilton
53Ms Anna Marie Melendez-Smith
54Mr Dante Barbieri, Shane McGookey, Benjamin Beauchamp, Jeremy Spotts & Evelyn Crowe
55Ms Camille Bell
56Ms Meenakshi Dara & Caroline Smith
57Ms Iris Estella Guerrero, Alberto Gutierrez-Irizarry & Jose Esparza
58Ms Carleigh Jernigan
59Mr John Goodrich
60Ms Natsuka Kobayashi & Dun Ya Hu
61Ms Katelyn Preston
62Ms Regina Duong, Coleman Zee, Ali Alcasey, Macy Cruz & Laura Kumar
63Ms Samantha Elizondo
64Ms Maya Agnihotri, Dhakshin Subbaiah, Marcus Paul & Ana Lara
65Dean Orenstein, Vi Truong, Will Thomas Pierce, Gregory Petri & Olumayowa Olowomeye
Harmony Hub
Thu Mar 24, 2022

9am - 12pm
[GPO] Medical Sciences Graduate & Professional Student Oral Session A
Where: MSC 2500
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description: Rm 2500 - Medical Sciences (A) [5]; Judges: Dr. Khaled Moustafa & Dr. Preeti Dubey
9:00 AM - 9:15 AM Mr Devon Dollahon
Internal Model with Interaction Gain Successfully Estimate Ground Reaction Force Change According to Change in Plantar Surface Area
9:20 AM - 9:35 AM Ms Dixita Viswanath
Engineered implantable NanoLymph for antigen-specific immunomodulation
9:40 AM - 9:55 AM Mr Joshua Bertels
Muscle Weakness and Fiber Type Redistribution May Explain the Diminished Mobility and Compromised Kinematics in Hypophosphatasia.
10:00 AM - 10:15 AM Mr Justin Keeney
NF-κB-Inducing Kinase (NIK) Reprograms Innate Immune Cell Metabolism, Differentiation, and Function
10:20 AM - 10:35 AM Ms Kirby Sherman
Heterogeneity in fracture healing in DS mouse models parallels human phenotype

9am - 10am [I] Core Facilities Informational
Where: Rudder Tower 401
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description: https://docs.google.com/forms/d/1COPumtH_RgfOkjiRdphv5reQleLG2Ko5umByK5BS7Z0/edit

9am - 10:40am [UP] Sociology, Economics, Humanities, Literature & Arts Undergraduate Poster Session
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description: 9:00 AM - 10:40 AM: Sociology, Economics, Humanities, Literature & Arts (B) [11]; Judges: Dr. Sharon Matthews & Dr. Carolyn Kennedy
36 Mr Sean Livingstone, Richard Dang, Tania Sebastian, Christina Gan & Justin Lee
37 Mr Devon Dollahon, Drowsy Driving; Capstone
38 Mr Ricardo Fernandez
Clinical Qualitative Data Analysis using Natural Language Processing
40 Ms Yiming Wang
Investigating Chinese Children's Understanding of Gender and Household Labor
41 Mr Zain Syed
On the Distinctiveness of Indexical Opacity
9:30am - 12:30pm

[GPO] Life Sciences Graduate & Professional Student Oral Session A

Where: MSC 2502
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
Rm 2502 - Life Sciences (A) [7]; Judge: Ms. Karissa Palmer
9:30 AM - 9:45 AM
Mrs Astrid Mariela Cardona-Acosta
Alprazolam exposure during adolescence induces life-long dysregulation of reward sensitivity and second messenger signaling within the VTA-NAc pathway.

9:50 AM - 10:05 AM
Ms Ilana Arielle Mosley
Monetary burden of neurocysticercosis-associated epilepsy on a population in Muli County, China.

10:10 AM - 10:25 AM
Ms Minal Jamsandekar
The evolution of fourchromosomal inversions underlying ecological adaptation in Atlantic charr through long-read sequencing.

10:30 AM - 10:45 AM
Ms Paloma Cuello Del Pozo
Mobility among ancient aboriginals of the Canary Islands: A case study using ten adult skeletons from the funerary deposit of Lomo Maspalomas, Gran Canaria Island, Spain.

10:50 AM - 11:05 AM
Mr Robert Kenneth Sims IV
Lingual Osseous Choristoma in a 7 Year Old

11:10 AM - 11:25 AM
Mr Robert Kenneth Sims IV & Mat Pietz
Advancing Right Ventricular Echocardiographic Analysis through Large Data Sets and Machine Learning Methods

9:50am - 12pm

[GPO] Chemical & Material Sciences Graduate & Professional Student Oral Session

Where: MSC 2501
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
Rm 2501 - Chemical & Material Sciences [4]; Judges: Mr. James B Palacios & Dr. Xinyue Ye
9:50 AM - 10:05 AM
Ms Naa-Kwarley Quartey
Nitric Oxide (NO) Breakdown in High Temperature Flows

10:10 AM - 10:25 AM
Mr Nick Shuber
Calculated Investigation of the Ground State Dissociation of CH2NO2 In Combustion Environments

10:40 AM - 10:55 AM
Mr Niranjan Sitapure
Multiscale Modeling of Spray Coating of Perovskite QDs: Understanding the Role of Molecular Interactions in Particle Aggregation

11:00 AM - 11:15 AM
Mr Shayan Sean Niknezhad
$2 Hydrogen

10am - 11am

[D] Navigating Professionalism in a Virtual Environment - Cindy Billington

Where: MSC 2406 B
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
https://docs.google.com/forms/d/1COPumtH_RgfOkijrDphv5reQleLG2Ko5umByK5BS7Z0/edit?usp=https://tamu.zoom.us/s/99712025442
Or join meeting with the following methods
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Phone one-tap: US: +1 346 248 7799 or +1 253 215 8782 or +1 312 436 2866 or +1 929 436 2866 or +1 669 900 6833 or +1 650 988 0099 (Toll Free)
Meeting ID: 997 1202 5442
International numbers
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http://www.tamu.zoom.us/skype/99712025442
Password: 495353
Skype for Business (Lync):
https://tamu.zoom.us/s/99712025442?password=495353
Skype for Business (Lync)
https://tamu.zoom.us/skype/99712025442?password=495353
11am - 12:40pm

[GGP] Health & Medical Sciences Graduate & Professional Student Poster Session A

Where: MSC 2400
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
11:00 AM - 12:40 PM: Health & Medical Sciences (A) [13]; Judges: Dr. Aishatu Yusuf & Dr. Martial Ndeffo
Mr Chad Southerland Mapping Transference Vulnerability: How Social, Health and Built Environment Factors Influence COVID-19 Exposure in Harris County, TX.
Mr Roberto Castro Jr. The effects of bimanual coordination constraints on postural control.
3Sharon Pan A Case of Eosinophilic Dermatitis of Hematologic Malignancy with Response to Narrow-Band UVB4Ms Mariam Atef Othman RANKL Protein Expression Knockdown by AAV9/shRNA Utilizing a Systemic Drug Delivery tool: Proof of Concept
5Philip Sanusi Addressing bias in special needs education: a scoping review mapping special needs interventions from 2000 - 2020 through the lens of race.
6Mr Abishai Dominic TNIK is an anoval activator of Interferon signaling in endothelial cells.
7Mr Joshua Bertels Muscle Weakness and Fiber Type Redistribution May Explain the Diminished Mobility and Compromised Kinematics in Hypophosphatemia.
8Mr Boluwatife Sanusi & Uyok Hanson Addressing bias in special needs education: a scoping review mapping special needs interventions from 2000-Åôs - 2020 through the lens of race.
9Rebecca Harlow Prolonged Exposure to Intestinal Edemagenic Stress Decreases Mesenteric Lymphatic Contractility
10Mr Braden Maxwell Sims Time Restricted Feeding Decreases Renal Innate Immune Cells and Blood Pressure in Hypertensive Mice11Ms Brittany Shapiro BosR Post-Transcriptional Regulation and Chaperone Activity in Borrelia burgdorferi12Ms Daniela Aimee Ayala Amino Associated Virus Tool to Ablate Astrocytic Mitochondria Function
13Mr Justin Keeney NF-κB-Inducing Kinase (NIK) Reprograms Innate Immune Cell Metabolism, Differentiation, and Function

1pm - 2:40pm

[GGP] Health & Medical Sciences Graduate & Professional Student Poster Session B

Where: MSC 2400
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
1:00 PM - 2:40 PM: Health & Medical Sciences (B) [13]; Dr. Angela Mulcahy & Dr Mohammad Al-Mahmood
14Mrs Kaileigh Roan Educating pre-professional undergraduate health students on gender and sexuality topics15Mrs Kaileigh Roan, Ashley Khanhkham & Sara Vera Narrative Inquiry of Media and Sexual Development
16Sarah Sprayberry A Systematic Review of the Connection between Agricultural Literacy and Nutrition
17Stefan Manoharan Rhythmic Finger Tapping Follows Rudimentary Grasping Pattern
18Mr Canberk Kayalar 3D printed pediatric medications19Mr Michael Lopez Walk Across Texas! Adult - College Edition- Helping TAMU Students Be More Active20Taylor Best Towards Stimulated Emission Pumping in a Repetitively Pulsed Hypersonic Flow Apparatus
21Ms Tasmiah Nuzhath Childhood Immunization during the COVID-19 pandemic in Texas23Ms Sharon Pan A Case of Eosinophilic Dermatosis of Hematologic Malignancy with Response to Narrow-Band UVB24Ms Sharon Pan Deciphering the Exosome Proteome of Cancer- Associated Fibroblasts
25Ms Rebecca Harlow Prolonged Exposure to Intestinal Edemagenic Stress Decreases Mesenteric Lymphatic Contractility
26Ms Ty Keara Mims Perceptions of COVID-19 Protocols at Texas A&M University
1:30pm - 4:30pm  
**[GPO] Life Sciences Graduate & Professional Student Oral Session B**  
*Where:* MSC 2502  
*Calendar:* Student Research Week 2022  
*Created by:* Kara Thomas  
*Description:*  
Rm 2502 - Life Sciences (B) [6]; Judges: Ms. Molly Sloan Smith & Dr. Isabella Farhy  
Farhy
1:30 PM - 1:45 PM Ms. Samantha Schrecke  
Selectiveregulation of human TRAAK channels by biologically active phospholipids  
1:50 PM - 2:05 PM Dr. Joseph Boland
Genome-Wide Evidence of Speciation in the Hydrocarbon Producing Microalga *Botryococcus braunii*  
2:10 PM - 2:25 PM Dr. Kendall Alyssa Howie  
Potato Starch Modification via Electron Beam (eBeam) Treatment: A Review
1:30 PM - 3:30pm  
**[GPO] Medical Sciences Graduate & Professional Student Oral Session B**  
*Where:* MSC 2500  
*Calendar:* Student Research Week 2022  
*Created by:* Kara Thomas  
*Description:*  
Rm 2500 - Medical Sciences (B) [4]; Judges: Dr. Vinrod Srivastava & Mrs. Eleni Vonda  
Vonda
1:30 PM - 1:45 PM Dr. Yiyu Wang  
Proximal and distalmuscle activation differentially affect bimanual coordination  
1:50 PM - 2:05 PM Dr. Abishai Dominic
TNF signaling in endothelial cells  
2:10 PM - 2:25 PM Dr. Haley Scott  
SerineArginine Splicing Factor 7 (SRSP7) is a critical regulator of innate immune activation in macrophages  
2:40 PM - 2:55 PM Dr. Madison Weinrich
Amplitude and time onset of force drift during unimanual and bimanual isometric contractions in Parkinson's Disease
1:30pm - 4:30pm  
**[UO] Psychology Undergraduate Oral Session A**  
*Where:* MSC 2503  
*Calendar:* Student Research Week 2022  
*Created by:* Kara Thomas  
*Description:*  
Rm 2503: Psychology (A) [5]; Ms. Raashi Sangwan & Paige Williams  
1:30 PM - 1:45 PM Ms. Blaine Reece Peters
Effect of cognitive load on the ability to increase and sustain positive emotion: An event-related potential study  
1:50 PM - 2:05 PM Ms. Nicole Paige Jackson
Parental personality effects on child development  
2:10 PM - 2:25 PM Ms. Sophia Girrawheen
North Devaluation of Alternative Partners in the Presence of Cognitive Load  
2:40 PM - 2:55 PM Ms. Alexandria Lauren Gonzalez
"I have learned many things I don’t want to take with me to the classroom." Exploring Teacher Candidate Experiences with Mentor Teachers  
3:00 PM - 3:15 PM Ms. Emma Cain & Maya Sela  
3α-androstanediol, an Androgenic Neurosteroid, Does Not Confer State Dependence to Conditioned Fear in Male Rats
1:30pm - 4:30pm  
**[UO] Psychology Undergraduate Oral Session B**  
*Where:* MSC 2504  
*Calendar:* Student Research Week 2022  
*Created by:* Kara Thomas  
*Description:*  
Rm 2504: Psychology (B) [5]; Judge: Angie Dunn  
1:30 PM - 1:45 PM Ms. Pratt
Do Good Drivers Vary in Their Demographic Characteristics?  
1:50 PM - 2:05 PM Mr. Santiago Ruffo  
Vanunyar Thunyawan & Sara Bahlibim
HELP  
2:10 PM - 2:25 PM Ms. Sara Ines Halabi
Teaching to Meet the Needs of Diverse Students in the Classroom  
2:40 PM - 2:55 PM Mr. Sangji Lee
Improving Out-Of-Field Preparation for High School Physics Teachers  
3:00 PM - 3:15 PM Ms. Carlee Garrett
Goal-Directed Control of Visual Attention and Minimization of Effort
Contacts, Student Research Week 2022, Holidays in United States

2pm - 3pm

[D] Retaining Resilience Through Uncertainty - Dr. Covey, Dr. Vargas & Dr. Kaneshia Moore

Where: Rudder Tower 401
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
https://docs.google.com/forms/d/1C0PumtH_RgfOkjiRdphv5reQleLG2Ko5umByK5BS7Z0/edit
https://tamu.zoom.us/s/92169058130
Or join meeting with the following methods:
Phone one-tap: US: +1 346 248 7799 or +1 253 215 8782 or +1 669 900 6833 or +1 312 626 6799 or +1 929 436 2866 or +1 301 715 8592 or 877 5247 (TollFree) or 888 788 0099 (Toll Free)
Meeting ID: 921 6905 8130
International numbers:
Join from an H.323/SIP room system:
92169058130@zoomcrc.com
Password: 013875
Skype for Business (Lync)
https://tamu.zoom.us/skype/92169058130
3pm - 4:40pm

[GPP] Engineering & Technology Graduate & Professional Student Poster Session

Where: MSC 2400
Calendar: Student Research Week 2022
Created by: Kara Thomas
Description:
3:00 PM - 4:40 PM: Engineering & Technology [9]; Judges: Dr. Muhao Chen, Dr. Galina Tsvetkova & Mr. Bjorn Harald Bangstein
27 Mr Ahnsei Shon
Comparison between Motor Nerve Stimulation and Sensory Nerve Stimulation for Effective Neuromodulation of Gait with a Multi-purpose Neural Interface Electrodes
28 Ms Ameya Chandrakar, Rahul Sahu, Hye Min Ju, Musfira Rahman & Ramya Sura Ananda
A Comparative Analysis of Travel Time Budget between USA and South Korea
29 Mr Asim Bashir Khajwal
Trustworthy crowdsourcing for rapid disaster damage assessment: Addressing uncertainty and enhancing reliability
30 Mr Jinwoo Kim
Human-Centric Sensing Platform to Capture Environmental Distress of Pedestrians on Large-scale Biosignals: An Interdisciplinary Approach
31 Mutaz Mohammad
Novel Ultrasound Elastography Technique for Cancer Diagnosis
32 Mr Jorge Santiago Ramirez Nunez
Effects of precipitation variability on the performance of enhanced infiltration systems
33 Mr Stefan Jabez Manoharan
Effects Of Electrical Stimulation on Rhythmic Subconscious Finger Tapping
34 Ms Taylor Best
Towards Stimulated Emission Pumping in a Repetitively Pulsed Hypersonic Flow Apparatus
3pm - 4:40pm

**[UP] Physics, Mathematics, & Computer Sciences Undergraduate Poster Session**

*Where:* MSC 2400  
*Calendar:* Student Research Week 2022  
*Created by:* Kara Thomas

*Description:* 3:00 PM - 4:40 PM: Physics, Mathematics, & Computer Sciences [13]; Judges: Dr. Khanh Nguyen & Samiran Sinha47Mr Nathan ValadezImpact of supplemental resources on student outcomes in introductory electricity and magnetism.48Mr Aolin Yang & Thomas GoodwinThe Effect of Various Temperature Schedules on the Comfort and Energy Efficiency of Radiant Room Heating at Room Temperature49Ms Annabel PerryCaveCrawler: An interactive analysis suite for cavefish bioinformatics50Mr Anooj Shah, Shikhar Baheti, Avery Erwin, Cora English & Mitchell StachaPresence51Jeremy Spotts TIAS - TIAS Is A Scheduler52Leon Liutranscrib-Capstone53Mr Omar Allie MohmandImplementing a cryocooler for nuclear spin optical rotation in solid state samples54Ms Mary Faith Mitchell, Hoa Nguyen, Taylor Wilson, Andrew Han & Rosendo Narvaez Walmart Anonymization Pipeline55Ms Emily Murphy, Maddie Foster, Matthew Bunker, Matthew Ho & Elijah Hawkins TripUs 56Mr Arian Noor The Use of Wearable Sensors to Assess Mental Stress in College Students57Mr Tien Nguyen Tavu Automated Verification Techniques for Solana Blockchain Applications58Mr Vicente Trevino & Jennifer Yuan VizUI 59Ms Grace Hamadeh Microbial Cell Density on Active, Inactive, and Transitioning Hydrothermal Sulfide Chimneys