

## Award Winners

(Listed by presentation type, student level and discipline.)

### Poster Presentation Competition

#### *Undergraduate Presentations*

#### **Agriculture & Natural Resources**

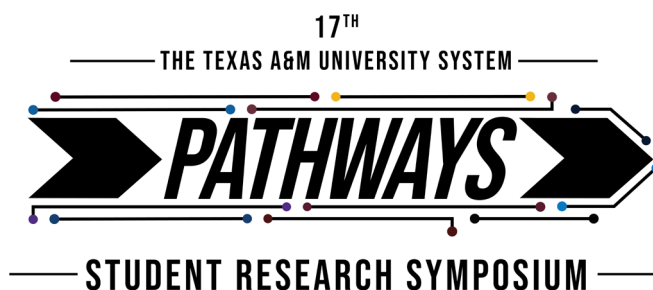
- 1st Place **Faith Isabelle**, Prairie View Texas A&M University, *The Effects of Nitrogen Rate on the Growth of Green Malabar Spinach (Basella alba L.) in Sandy Loam Soil in Southeast Texas.*
- 2nd Place **Lenaye Palmer**, Prairie View Texas A&M University, *Analyzing the microbial population on the fresh produce collected from the community garden.*
- 3rd Place **A'naya Ware**, Prairie View Texas A&M University, *Morphological and phytochemical diversity of grain-type industrial hemp (Cannabis sativa).*

#### **Biomedical & Health Sciences**

- 1st Place **Ananya Pillai**, Texas A&M University – College Station, *Self-Powered Implantable Pacemaker- will it become a reality?*
- 2nd Place **Anil Pournouri**, Texas A&M University – Texarkana, *Hypertensive Stimuli Increases Lymphangiogenesis in Human Lymphatic Endothelial Cells.*
- 3rd Place **Samhitha Ramanuja & Devon Roeming**, Texas A&M University – College Station, *AAV9/shRNA Knockdown of RANKL Protein Expression Utilizing Systemic Intraperitoneal Injections to Inhibit NADPH Oxidase-2.*

#### **Business & Information Technology**

- 1st Place **Kylea Marlow**, Tarleton State University, *Service Blueprint Approach to the Planning of a Business Plan Competition.*



## Poster Presentation Competition

### *Undergraduate Presentations (continued)*

#### Education

1st Place **Elpida Cervantes**, Tarleton State University, *Using the Student Perception Survey to Cultivate a Community of Care in the 5th Grade Classroom.*

#### Engineering & Computer Science

1st Place **Michael Ramos & Joseph Saenz**, Texas A&M University – Kingsville, *Updating the Historical Records of the Carrizo-Wilcox Aquifer Groundwater Availability Model for Improved Model Predictions.*

2nd Place **Jose Falcon**, Texas A&M University – Corpus Christi, *Image Processing through ArUco Marker Instruction in a UAV System and IoT Application.*

2nd Place **Ian Lopez**, Texas A&M International University, *Improving CO<sub>2</sub> storage and oil recovery in shale oil reservoirs using dual lateral wells.*

3rd Place **Jackson Black & Zackery Watson**, Tarleton State University, *Design and Fabrication of Space Exploration Vehicle for Extraterrestrial Terrain.*

3rd Place **Tyler Pillman & Hannah Rudewick**, Texas A&M University - College Station, *Developing a method to scale the degree of packing in MAP scaffolds*

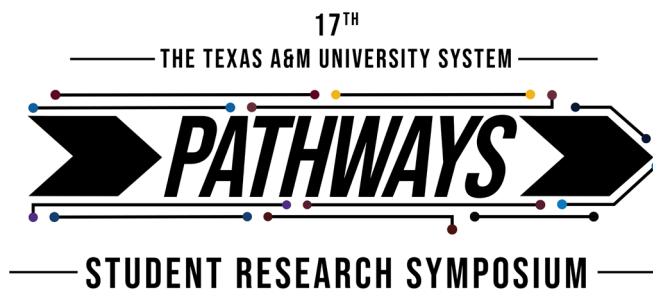
#### Life Sciences

1st Place **Abcde Cirilo**, Texas A&M University – Kingsville, *Effects of Snake Venom CRiSPs on the Production of Cytokines in Human Dermal Blood and Lymphatic Endothelial Cells.*

2nd Place **Diksha Shakya**, Texas A&M University – Commerce, *CAV1-Rho pathway mediates G1P3-induced Breast cancer cell migration.*

3rd Place **Elizabeth Carrillo**, Texas A&M University – Corpus Christi, *In-Vitro Analysis of the Contribution of S-Nitrosylation to the Learning-Induced Neuronal Plasticity in the Mollusk Aplysia*

3rd Place **Eliza Perez**, Texas A&M University – Galveston, *Mechanical Properties of Kemp's Ridley (*Lepidochelys kempii*) and Loggerhead (*Caretta caretta*) Sea Turtle Rhamphothecae.*



## Poster Presentation Competition

### *Undergraduate Presentations (continued)*

#### Mathematics & Physical Science

- 1st Place **Caroline Valdes**, Texas A&M University – College Station, *Formation of Polyetherimide Nanocomposite Coatings for Maximization of Corrosion Inhibition of Base Metals.*
- 2nd Place **Vida Robertson**, Texas A&M University – Commerce, *Substituent Effect Analysis of the Synthesis of 1-Azabicyclo[2.2.1]heptan-2-one Using Diels-Alder Reactions.*
- 3rd Place **Michael Brdeka**, Texas A&M University – Commerce, *Hydrothermal Liquefaction of Chlorella and Reeds to Bio-oils and other Value added products.*

## Poster Presentation Competition

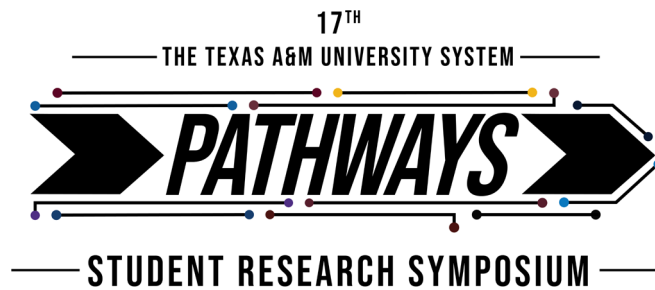
### *Master's Presentations*

#### Agriculture & Natural Resources

- 1st Place **Ryon Springer**, Tarleton State University, *Palatability of hempseed meal pellets compared to mainstream feedstuffs in horses.*
- 2nd Place **Emily Purnell**, Tarleton State University, *Effect of Cannabidiol on Follicular Growth and Ovulation in Cattle.*
- 3rd Place **Heather Ruemke**, Tarleton State University, *Beyond the Breeding Soundness Exam: The evaluation of the motility and viability of sperm cells as well as a quantification and evaluation of miRNA 26a-5p, miRNA 574, as parameters for bull infertility.*



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## Poster Presentation Competition

*Master's Presentations (continued)*

### Biomedical & Health Sciences

- 1st Place **Lyric Richardson**, Tarleton State University, *Effects of Low-Intensity Fatigue on Motor Unit Firing Properties.*
- 2nd Place **Jesse Delacruz and Joo Hyun Kim**, Texas A&M University – San Antonio, *Acupuncture Treatments Mitigate Muscle Atrophy induced by Casting Model.*

### Business & Information Technology

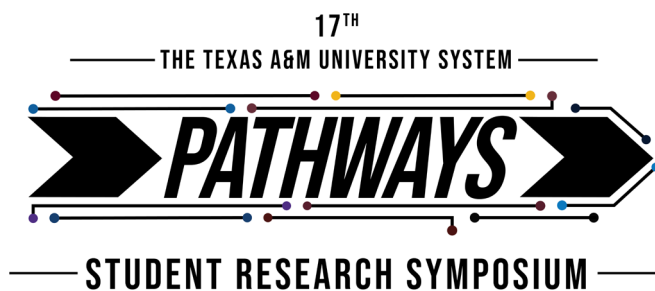
- 1st Place **Chiho Kim**, Texas A&M University – Commerce, *Zero-day Malware Detection using Threshold-free Autoencoding Architecture.*

### Engineering & Computer Science

- 1st Place **Gabriela Ramos**, Texas A&M University – College Station, *Exposure to Bacterial Aerosols with Antimicrobial Resistance Surrounding Septic Systems.*
- 2nd Place **Layla Ogletree**, Prairie View Texas A&M University, *Fabrication of Thin Film Nanocomposite Forward Osmosis Membranes for the Treatment of Produced Water.*
- 3rd Place **Faryal Fatima**, Prairie View Texas A&M University, *Poultry Slaughterhouse Wastewater Treatment with Membrane Technologies.*



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## Poster Presentation Competition

### *Master's Presentations (continued)*

#### Life Sciences

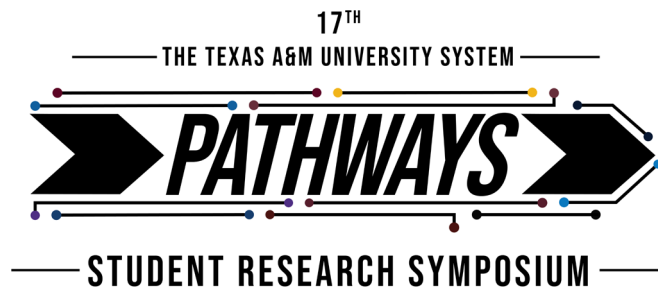
- 1st Place **Eliza Mills**, Texas A&M University – Corpus Christi, *Shore-based Theodolite Tracking of Bottlenose Dolphin Movement and Behavior in the Corpus Christi Ship Channel.*
- 2nd Place **Oscar Sanchez**, Texas A&M University – Kingsville, *Purification of a novel recombinant cysteine-rich secretory protein (rCRiSP) expressed in E.coli for the development of egg yolk antibody (IgY).*
- 3rd Place **Robert Mueller**, Texas A&M University – Corpus Christi, *Analysis of Gene Transcription and mRNA Translation Requirements for Experience-Dependent Long-Term Changes in Appetitive Neural Circuits in an Invertebrate Model.*
- 3rd Place **Maxwell Portmann**, Texas A&M University – Corpus Christi, *Post-disturbance below- and aboveground recovery of Avicennia germinans (L.) L. on the Texas Gulf Coast.*

#### Mathematics & Physical Science

- 1st Place **Hailey Burt**, Texas A&M University – Commerce, *Promoted Palladium Catalysts for Liquid Phase Selective Hydrogenation of Alkynes.*
- 2nd Place **Justin Elliot**, Texas A&M University – Corpus Christi, *Increasing the Analytical Window of Marine Dissolved Organic Matter for HRMS Analysis.*
- 3rd Place **Allyson Girard**, Texas A&M University – Corpus Christi, *Sulfide Intrusion in the Seagrass Halodule wrightii as Assessed by Tissue Sulfur Isotopic Composition.*



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## Oral Presentation Competition

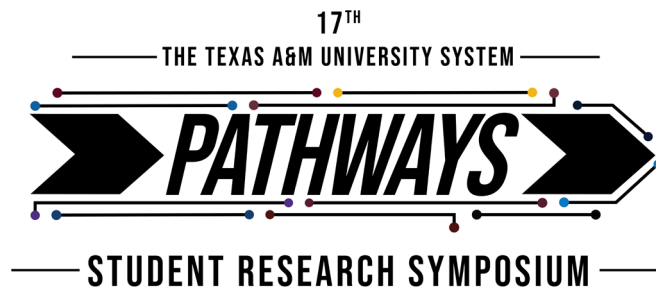
### *Undergraduate Presentations*

#### Humanities

- 1st Place **Ashlyn Lester**, West Texas A&M University, *Women and the Making of a Nation: An analysis of the South Korean Family Planning Program.*
- 2nd Place **Leah Green**, Texas A&M University – Texarkana, *Numbers of The Library of Babel.*
- 3rd Place **Sarah Rutherford**, Texas A&M University – College Station, *Called and Challenged: Examining the Experiences of Women Clergy in Brazos County and Harris County, Texas.*

#### Social Sciences

- 1st Place **Gerald Farrell**, West Texas A&M University, *Movies and Mood: How Family Movies and Horror Movies affect mood, life satisfaction, and perceived stress.*
- 2nd Place **Luis Perez**, Texas A&M University – San Antonio, *Verifying a New Measure of Traditional Masculinity.*
- 3rd Place **Sophia North**, Texas A&M University – College Station, *Devaluation of Alternative Partners in the Presence of Cognitive Load.*



## Oral Presentation Competition (continued)

### *Master's Presentations*

#### **Humanities**

1st Place **Kribi Kelley-Diaz**, West Texas A&M University, *Costly Articles of Adornment: The Substitution, Economy, and Morality of Food 1880-1920.*

#### **Social Sciences**

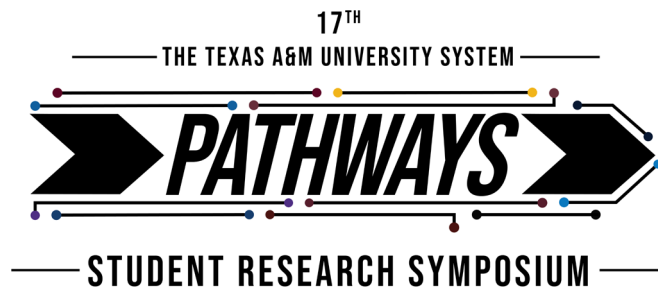
1st Place **Amber Meegan**, Texas A&M University – San Antonio, *Moderating Effects of Caregiver Attachment Style on Treatment Outcomes among Youth in a Long-Term Residential Trauma Treatment Program.*

2nd Place **Krista Rodriguez**, Texas A&M International University, *Virtual Psychoeducational Groups with Latino College Students: Findings from Focus Groups.*

3rd Place **Quinesha Bentley**, Prairie View Texas A&M University, *Black Trauma: The Impact of Desecrating Black Historical Markers and the Racist Effects on the Black Experience.*



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## Doctoral Lightning Talk Competition

- 1st Place **Ahnesi Shon**, Texas A&M University – College Station, *Fully Implantable Closed-loop Neural Interface System Augmenting Plantar Cutaneous Sensory Feedback for Locomotor Rehabilitation.*
- 2nd Place **Abbey Hotard**, Texas A&M University – Galveston, *Household Adaptations to Coastal Hazards.*
- 3rd Place **Brooke Smith**, Texas A&M University – College Station, *Aerosolization Triggers Immediate Antibiotic Resistance in Bacteria.*



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