ANNUAL REPORT

FY 2022-2023
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Compiled February 20, 2023
Contact: Dr. Diana Elrod delrod@twu.edu
Mission and Purpose

The mission of the Center for Student Research is to enhance the educational experience of students by providing opportunities for meaningful engagement in faculty-mentored research and creative activity opportunities. The purpose of the Center for Student Research is to promote an enhanced educational experience for students by providing opportunities for meaningful interaction between faculty and students through support, education, and programming in research and creative activities. The goals of CSR are to:

- provide opportunities for students to participate in all phases of research and creative activity, from design through dissemination;
- facilitate research partnerships between TWU students and faculty promoting faculty-mentored research opportunities for students;
- facilitate scholarly/creative partnerships between TWU students and faculty promoting faculty-mentored scholarly/creative opportunities for students;
- facilitate research collaboration between graduate and undergraduate students;
- enhance the students’ knowledge of all phases of research;
- promote a national presence for TWU students (i.e. National Council for Undergraduate Research - NCUR, Society for the Advancement of Chicanos and Natives Americans in Science - SACNAS); and
- ensure mutual benefit to both students and faculty members.

AY 2022 - 2023 Highlights

- **Grants** - Over $49,125.72 was awarded to both undergraduate and graduate students to support research and the presentation of research. The maximum for each award was $500 and 146 students (34 undergraduate and 112 graduates) were recipients. See individual award information section.

- **Center for Student Research Workshop Series** - Monthly presentations were provided virtually and topics included the following: *Resilience and Its Importance to Your Future Research Success; The Library and Your Research: A Necessary Collaboration; Writing and Your Research; Nationally Competitive Scholarships, Fellowships, and Other Opportunities; Forward Momentum and Your Research; and Research Internship Experiences with Laura Ruemmele.*

- **Student Creative Arts and Research Symposium** – For this virtual symposium, over 225 abstracts were accepted for presentation and can be found in the 2023 Student Creative Arts & Research Symposium Program. The Chancellor’s Student Research Scholars were selected and received their awards. Students who accepted to the Symposium have been invited to place their research in the TWU Library Archives.
### Student Engagement Summary

<table>
<thead>
<tr>
<th>EVENT</th>
<th># STUDENTS ENGAGED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student Creative Arts and Research Symposium</strong></td>
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<tr>
<td>Accepted Abstracts</td>
<td>232</td>
</tr>
<tr>
<td>Poster Presentations</td>
<td>126</td>
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<tr>
<td>Platform Presentations</td>
<td>37</td>
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<tr>
<td>Virtual Presentations</td>
<td>69</td>
</tr>
<tr>
<td><strong>Total Presentations &amp; Number of Students Engaged</strong></td>
<td><strong>232</strong>*</td>
</tr>
<tr>
<td><em>As many abstracts had multiple authors, the actual number engaged is higher than the total number of abstracts.</em></td>
<td></td>
</tr>
<tr>
<td><strong>CSR Student Research and Research Presentation/Publication Grant Awards</strong></td>
<td></td>
</tr>
<tr>
<td>UG</td>
<td>34</td>
</tr>
<tr>
<td>GS</td>
<td>112</td>
</tr>
<tr>
<td><strong>Total Engaged</strong></td>
<td><strong>146</strong></td>
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<tr>
<td><strong>Workshops/Presentations/Individual Meetings</strong></td>
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</tr>
<tr>
<td><strong>Total Engaged (UG &amp; GS)</strong></td>
<td><strong>150+</strong></td>
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<tr>
<td><strong>Total Engagements with UG &amp; GS</strong></td>
<td><strong>528+</strong></td>
</tr>
</tbody>
</table>
# 2022-2023 Student Research Grants

<table>
<thead>
<tr>
<th><strong>Student(s)</strong></th>
<th><strong>Mentor</strong></th>
<th><strong>Department</strong></th>
<th><strong>Title of Research</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Anne-Marie Alford</td>
<td>Dr. Kathleen Davis</td>
<td>Nutrition &amp; Food Science</td>
<td>Engagement in Nutrition Education Provided on Instagram Versus Facebook Among Snap-Eligible Parents of Preschoolers</td>
</tr>
<tr>
<td>Hunter Alvis</td>
<td>Dr. Rhett Rigby</td>
<td>Kinesiology</td>
<td>The Biomechanical Effects of Assisted Batting Equipment in a Wheelchair Softball Batting Swing</td>
</tr>
<tr>
<td>Jace Brown</td>
<td>Dr. Sharon Wang-Price</td>
<td>Physical Therapy</td>
<td>Use of Color Doppler Ultrasonography for Assessment of Dry Needling Effect on Blood Flow</td>
</tr>
<tr>
<td>Traci Causey</td>
<td>Dr. Dr. Ann Amuta</td>
<td>School of Health Promotion and Kinesiology</td>
<td>Multi-Level Influences on Seafood Consumption Among Supplemental Nutrition Assistance Program Participants in New Orleans, LA</td>
</tr>
<tr>
<td>Cayla Clark</td>
<td>Dr. Rhett Rigby</td>
<td>SHPK</td>
<td>Exercise Effects on Aging Skeletal Muscle: An In Vitro Model</td>
</tr>
<tr>
<td>Gage Connors</td>
<td>Dr. Juliet Spencer</td>
<td>Biology</td>
<td>Investigation of Cell Signaling by the US27 Gene of Human Cytomegalovirus</td>
</tr>
<tr>
<td>Liliana Driver</td>
<td>Dr. Gustavo A. Salazar</td>
<td>Chemistry &amp; Biochemistry</td>
<td>Removal, Isolation, and Analysis of Microplastics from Local Soil Using Physical and Chemical Techniques</td>
</tr>
<tr>
<td>Erica Garcia</td>
<td>Dr. Juliet Spencer</td>
<td>Biology</td>
<td>The Effects of Human Cytomegalovirus on Breast Cancer Cells: Hormone Receptor Level Regulation</td>
</tr>
<tr>
<td>Andrea Jackson</td>
<td>Dr. Judith McFarlane</td>
<td>Nursing</td>
<td>How Parents Care for Their Child During a Sickle Cell Crisis Without Medical Intervention?</td>
</tr>
<tr>
<td>Kenneth L Miller</td>
<td>Dr. Mary Thompson</td>
<td>Physical Therapy</td>
<td>Descriptive Study Exploring Trauma in Early Career Physical Therapists Licensed Five Years or Less</td>
</tr>
<tr>
<td>Vy Cao-Nguyen</td>
<td>Dr. Debra Mollen</td>
<td>Counseling Psychology</td>
<td>Perceptions of Intergenerational Trauma in Adult Children of Vietnamese Refugees</td>
</tr>
<tr>
<td>Amanda North</td>
<td>Dr. Lisa Rosen</td>
<td>Psychology &amp; Philosophy</td>
<td>Perspectives of U.S. Military Veterans Regarding Mindfulness Practices</td>
</tr>
<tr>
<td>Jose Paniagua</td>
<td>Dr. Nasrin Mirsaleh-Kohan</td>
<td>Chemistry &amp; Biochemistry</td>
<td>Spectral Analysis of Carbon Nanotubes and Their Molecular Adsorption of Carbon Dioxide</td>
</tr>
<tr>
<td>Name</td>
<td>Advisor</td>
<td>Department</td>
<td>Research Title</td>
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<tr>
<td>Rajdeep Samara</td>
<td>Dr. Laura Hanson</td>
<td>Biology</td>
<td>Testing Antiviral Properties of Traditionally Used Medicine</td>
</tr>
<tr>
<td>Zahra Somani</td>
<td>Dr. Adam Jones</td>
<td>HDFS</td>
<td>The Impact of Gender Role Expectations on South Asian American Women: A Qualitative Study</td>
</tr>
<tr>
<td>Nicole Varone</td>
<td>Dr. Kyle Biggerstaff</td>
<td>School of Health Promotion and Kinesiology</td>
<td>Anaerobic Performance in the Ovulatory VS Luteal Phases of the Menstrual Cycle.</td>
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<tr>
<td>Jennifer Whittaker</td>
<td>Dr. Cynthia Evetts</td>
<td>Occupational Therapy</td>
<td>Examining an Application of Occupation-Based Theoretical Models to Population-based Occupational Therapy Practice: A Foucauldian Critical Discourse Analysis</td>
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<tr>
<td>Angelica Addo</td>
<td>Dr. Maria Peterson-Ahmad</td>
<td>Teacher Education</td>
<td>Culturally Responsive High Leverage Practices (HLPs) in Evaluation: An Examination of the Barriers</td>
</tr>
<tr>
<td>Akinwande Akinniyi</td>
<td>Dr. Gustavo A. Salazar</td>
<td>Chemistry &amp; Biochemistry</td>
<td>Bringing Photodegradation of Plastic-Waste into the “Green Age”</td>
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<tr>
<td>Maribel Alcala</td>
<td>Dr. Wyona Freysteinson</td>
<td>Nursing</td>
<td>The Effects of a M-Health Innovation on Health Literacy and Asthma Control in Spanish-Speaking Parents of Children with Asthma</td>
</tr>
<tr>
<td>Juan E. Armijo</td>
<td>Dr. Catherine Dutton</td>
<td>Human Development, Family Studies, &amp; Counseling</td>
<td>First-Generation, Latino Male College Student Use of Photos to Describe what Influences their College Experience: A Photo-Elicitation Arts-Based Qualitative Study</td>
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<tr>
<td>Delores Davis</td>
<td>Dr. Laura Hanson</td>
<td>Biology</td>
<td>Stability of Microtubules</td>
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<td>Jeniffer Dolinta</td>
<td>Dr. Wyona Freysteinson</td>
<td>Nursing</td>
<td>The Journey and Experiences of Female Hispanic Nurse Leaders</td>
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<tr>
<td>Page French</td>
<td>Dr. Nasrin Mirsaleh-Kohan</td>
<td>Chemistry &amp; Biochemistry</td>
<td>Investigation of the Antineoplastic Agents Carboplatin and Heptaplatin In the Presence of DNA</td>
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<tr>
<td>Taylor Hickman</td>
<td>Dr. Dayna Averitt</td>
<td>Biology</td>
<td>Differential Gene Expression Underlying Female Prevalence in TMJ</td>
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<td>Meredith Higgins</td>
<td>Dr. Debra Mollen</td>
<td>Counseling Psychology</td>
<td>Factors Affecting Mental Health Providers' Competent Care of Transgender and Gender Nonbinary Clients</td>
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<tr>
<td>Ray Lunasin</td>
<td>Dr. Sharon Wang-Price</td>
<td>Physical Therapy</td>
<td>The Effect of Dry Needling on Sleep Quality, Pain Intensity and Function for Individuals with Chronic Neck Pain and Sleep Disturbance: A Pilot Study</td>
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<tr>
<td>Name</td>
<td>Advisor</td>
<td>Department</td>
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<tr>
<td>Megan Morse</td>
<td>Dr. Sushimita Sinha</td>
<td>Biology</td>
<td>SIRPα-mediated Regulation of Lck Expression in Activated T Cells</td>
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<tr>
<td>Monica Palacios</td>
<td>Dr. Mandy Golman</td>
<td>Health Studies</td>
<td>Florida Public High School Counselors Perception of Safe Spaces, Suicide Ideation and Suicide Attempts</td>
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<td>Salena Parker</td>
<td>Dr. Gretchen Busl</td>
<td>LCGS</td>
<td>What She Carries with Her</td>
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<td>Rudie Spigarelli</td>
<td>Dr. Rupal Patel</td>
<td>Physical Therapy</td>
<td>What Affects DPT Students’ Sleep? A Study of the Status and Factors that Impact Sleep Quality of Doctor of Physical Therapy Students in the United States.</td>
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<tr>
<td>Tamara Starling</td>
<td>Dr. Julie Herbrith</td>
<td>Psychology</td>
<td>Influence Of Social Emotional Learning On Coping, Self-efficacy, and Belongingness</td>
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<td>Halie Wright</td>
<td>Dr. Asha Vas</td>
<td>Occupational Therapy</td>
<td>Does Adaptive Golf Improve Posture and Participation in Activities of Daily Living in Those with Parkinson’s Disease?</td>
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<td>Alondra Ammon</td>
<td>Dr. Cynthia Evetts</td>
<td>Occupational Therapy</td>
<td>Diversity Meets Equitable and Inclusive Fieldwork: A Qualitative Phenomenological Study</td>
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<td>Jason Cravens</td>
<td>Dr. Rebecca Lucero Jones</td>
<td>Human Development, Family Studies, &amp; Counseling</td>
<td>The Quiet Crisis: An Interpretive Phenomenological Study on Parental Experiences of Youth Inpatient Treatment</td>
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<td>Brittany Culp</td>
<td>Dr. Jennifer Woo</td>
<td>Nursing</td>
<td>Barriers and Motivators for Joining the Midwifery Profession in Black Nursing Students</td>
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<td>Douglas Davis</td>
<td>Dr. Laura Hanson</td>
<td>Biology</td>
<td>Examining Regulatory Mechanisms of the Essential Murine Cytomegalovirus Gene M142</td>
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<tr>
<td>Raven Gallenstein</td>
<td>Dr. Shiru Lin</td>
<td>Chemistry &amp; Biochemistry</td>
<td>Molecular Modeling of Poly(bisphenol A carbonate) to Determine Interaction Energy and Reaction barriers Using DFT Calculations.</td>
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<td>Cynthia Ine</td>
<td>Dr. Mikyoung Lee</td>
<td>Nursing</td>
<td>The Effect of a Text Message Intervention on Physical Activity and Healthy Eating Behaviors in African American Women Who are Overweight or Obese</td>
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<tr>
<td>Mary Susan Karpiel</td>
<td>Dr. Marilyn Massey-Stokes</td>
<td>Health Studies</td>
<td>Examining the Relationship Between Coping Strategies and Positive Body Image Among Older Women</td>
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<td>Youjin Kim</td>
<td>Dr. Shiru Lin</td>
<td>Chemistry</td>
<td>Computational Chemistry on Investigating Copper, Carbon-doped Graphene Catalyst for CO2 Reduction Reactions</td>
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<tr>
<td>Name</td>
<td>Advisor</td>
<td>Field</td>
<td>Research Title</td>
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<tr>
<td>Jamie Kimbrell</td>
<td>Dr. Heather Conrad Webb</td>
<td>Biology</td>
<td>Exploring Protein Concentrations of Key Glutathione Biosynthesis Enzymes via Immunodetection in Hela Cells</td>
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<tr>
<td>Tierney Klee</td>
<td>Dr. Xiaofin Du</td>
<td>Nutrition &amp; Food Sciences</td>
<td>Quantification of Remaining Acids in Aromatic Hops After Dry Hopping</td>
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<td>Halima O. Kouadio</td>
<td>Dr. Manal Omary</td>
<td>Chemistry &amp; Biochemistry</td>
<td>Synthesis of Cu(I)-Niacinamide Coordination Complexes via Alteration of Synthetic Routes</td>
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<td>Adam C. Kuentzel</td>
<td>Dr. Gabrielle P.A. Smith</td>
<td>Psychology</td>
<td>Gender and Racial Workplace Bias: Emotion Regulation, Repression, and Expression</td>
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<td>Albertine McGill</td>
<td>Dr. Danhui Wang</td>
<td>Nutrition &amp; Food Sciences</td>
<td>Investigation of the Physical and Microbiology Quality of Pea Microgreens Enriched with Probiotic Bacteria</td>
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<td>Megan Morse</td>
<td>Dr. Sushmita Sinha</td>
<td>Biology</td>
<td>Regulation of Effector Response in Naive T cells</td>
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<td>Regina Newman</td>
<td>Dr. Helen Everts</td>
<td>Nutrition &amp; Food Sciences</td>
<td>Dose-dependent Effects of Vitamin A on Hair Follicle Stem Cells</td>
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<td>Nathan Nguyen</td>
<td>Dr. Alex Klacman</td>
<td>Nursing</td>
<td>Pediatric Critical Care Nurses' Perceptions on the Cardiopulmonary Resuscitation of Obese Pediatric Patients: A Focus Group Study</td>
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<td>Isabel Obregon</td>
<td>Dr. Shanil Juma</td>
<td>Nutrition &amp; Food Sciences</td>
<td>Dose Dependent Action of Beetroot Polyphenols on Human Umbilical Vein Endothelial Cells: In Vitro Model for Cardiovascular Health</td>
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<td>Miteshri Dhiraj Prajapati</td>
<td>Dr. Kathleen Davis</td>
<td>Nutrition &amp; Food Sciences</td>
<td>Effectiveness of a YouTube-Delivered Nutrition Education Intervention among Parents of Children with Obesity and Autism</td>
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<td>Linsey Rodriguez</td>
<td>Dr. Danhui Wang</td>
<td>Nutrition &amp; Food Sciences</td>
<td>Investigation of the Efficacy of Different Post-Harvest Washing Methods for Fresh Spinach</td>
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<td>Christine VanBuren</td>
<td>Dr. Helen Everts</td>
<td>Nutrition &amp; Food Sciences</td>
<td>The Localization of ABCA4 in the Mouse Hair Follicle</td>
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<td>Elisabeth Wise</td>
<td>Dr. Mary Thompson</td>
<td>Physical Therapy</td>
<td>The Effect of Hand Mobility and Grip Strengthening Exercise on Upper Limb Volume, Quality of Life, and Hand Function in Breast Cancer Survivors</td>
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</table>
### 2022-2023 Student Research Presentation Grants

<table>
<thead>
<tr>
<th>Students</th>
<th>Mentor</th>
<th>Department</th>
<th>Title of Research Presentation or Publication</th>
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<tbody>
<tr>
<td>Shaunte Alvarez Minor</td>
<td>Dr. Aimee Myers</td>
<td>Teacher Education</td>
<td>Women of Color: Navigating the System with Poise, Perseverance, and Passion in Pursuit of a Doctoral Degree.</td>
</tr>
<tr>
<td>Briana Arellano</td>
<td>Dr. Heather Roberts</td>
<td>Occupational Therapy</td>
<td>Caregiver Perceptions and Ability to Implement an Intensive Upper Limb Therapy Program in the Home Environment</td>
</tr>
<tr>
<td>River Gallagher</td>
<td>Dr. Aimee Hendrix-Soto</td>
<td>Literacy and Learning</td>
<td>Supporting LGBTQ+ Students in English classrooms</td>
</tr>
<tr>
<td>Myles Gladen</td>
<td>Dr. Zane Lybrand</td>
<td>Biology</td>
<td>Building Cortical Grafts from Induced Pluripotent Derived Stem Cells for Traumatic Brain Injuries</td>
</tr>
<tr>
<td>Taylor Hickman</td>
<td>Dr. Dayna Averitt, Biology</td>
<td></td>
<td>Estrogen and Serotonin’s Modulatory Role in Neuroinflammation Provide a Mechanism Underlying Sex Differences in Pain</td>
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<tr>
<td>Melissa Lopez</td>
<td>Dr. Suh-Jen Lin</td>
<td>Physical Therapy</td>
<td>The Efficacy of Inspiratory Muscle Training on Respiratory Muscle Strength and Pulmonary Function in Individuals With Spinal Cord Injury – a Systematic Review</td>
</tr>
<tr>
<td>Isabelle Marshall</td>
<td>Dr. Suh-Jen Lin</td>
<td>Physical Therapy</td>
<td>The Efficacy of Inspiratory Muscle Training on Respiratory Muscle Strength and Pulmonary Function in Individuals With Spinal Cord Injury – a Systematic Review</td>
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<tr>
<td>Zulma E. Mojica</td>
<td>Dr. Mandy Stewart</td>
<td>Literacy &amp; Learning</td>
<td>Presentation 1 - A Teacher’s Perception of Translanguaging in the Dual Language Classroom Presentation 2 - Literacy Research across Borders: Disrupting English Hegemony in Literacy Research Spaces</td>
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<tr>
<td>Angeles Muñoz</td>
<td>Dr. Mary Stewart</td>
<td>Literacy &amp; Learning</td>
<td>Translanguaging in Multilingual and Multicultural Classrooms</td>
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<td>Temiloluwa Olaoluwa</td>
<td>Dr. Dayna L. Averitt</td>
<td>Biology</td>
<td>Euphorbia Bicolor Induces Analgesia in a Rat Model of Burn Pain via Altering Cytokines and Chemokines in the Dorsal Root Ganglia and Reducing Pronociceptive Peptide Release at the Spinal Cord</td>
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<tr>
<td>Cooper Overton</td>
<td>Dr. Suh-Jen Lin</td>
<td>Physical Therapy</td>
<td>Effects of Virtually Delivered Exercise Program on Breathing Strength and Lung Function in Individuals with Spinal Cord Injury- A Retrospective Study</td>
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<tr>
<td>Moriah Pearce</td>
<td>Dr. June Levitt</td>
<td>COMS</td>
<td>A Perceptual Study: &quot;Intent&quot; and &quot;Loud&quot; Instructions on Individuals with Parkinson’s disease.</td>
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<tr>
<td>Jaida Pryor</td>
<td>Dr. Rebecca Lucero Jones</td>
<td>Marriage &amp; Family Therapy</td>
<td>Uncovering the Lived Experience of Marriage and Family Therapists Working with Incarcerated Youth: A Phenomenological Approach</td>
</tr>
<tr>
<td>Title</td>
<td>Author(s)</td>
<td>Department</td>
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<tr>
<td><em>Maclura pomifera</em> Plant Extracts Inhibit Proliferation and Induce Apoptosis in ER-positive Breast Cancer Cell Lines*</td>
<td>Mafia Mahabub Rumpa Dr. Camelia Maier</td>
<td>Biology</td>
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<tr>
<td>Predictors of Treatment Adherence in Patients with Centralized Low Back Pain</td>
<td>Seth Watson Dr. Elaine Jackson</td>
<td>Physical Therapy</td>
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<td>Students Who are Deaf/HH: MisMatch of Service Needs and Graduate Training Programs</td>
<td>Rebecca Woodruff Dr. Sarah Wainscott</td>
<td>COMS</td>
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<tr>
<td>Preparing Students for Media Literacy with Social Emotional Learning</td>
<td>Kishwar Zia Dr. Aimee Hendrix</td>
<td>Literacy &amp; Learning</td>
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<td>Light Therapy Device for Entrainment of Circadian Rhythm Desynchronization</td>
<td>Hunter Alvis Dr. Rhett Rigby</td>
<td>Kinesiology</td>
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<tr>
<td>Listening to Black Pregnant and Postpartum Women and their Knowledge and Experiences with Midwifery Care and Birth Centers in Texas</td>
<td>Shalom Anyiam Dr. Jennifer Woo</td>
<td>Nursing</td>
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<tr>
<td>Cross-Cultural Utility of Performance Validity Indicators in a Community Sample from Kampala, Uganda</td>
<td>Abigail Baird Dr. Sally Stabb</td>
<td>Psychology</td>
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<td>Supporting Parenting Students in Higher Education</td>
<td>Felisha Burleson Dr. Catherine Dutton</td>
<td>HDFSC</td>
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<tr>
<td>Sex Differences in GABAergic and Serotonergic Trigeminal Sensory Neurons Innervating the Vibrissal Pad in a Rat Model of Stress-Exacerbated Orofacial Pain</td>
<td>Daisy J. Cantu Dr. Dayna Averitt</td>
<td>Biology</td>
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<tr>
<td>Comparison of cognitive performance following one hour of passive heating or walking in older adults</td>
<td>Cayla Clark Dr. Rhett Rigby</td>
<td>SHPK</td>
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<tr>
<td>Are Multidisciplinary Culturally Sensitive Community-Based Health Fairs Effective in the Underserved Vietnamese Americans?</td>
<td>Anh Tuyet Le Dr. Vi Ho</td>
<td>Nursing</td>
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<tr>
<td>Life-Story Development: Two Case Studies with Parkinson's Disease</td>
<td>Bailey Murray Dr. June Levitt</td>
<td>Communication Sciences</td>
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<tr>
<td>Impact of Storage on Kernel Coat Color, Carotenoids, Polyphenols, and Physicochemical of Five Pecan Varieties</td>
<td>Thi Diem Thuy Pham Dr. Xiaofen Du</td>
<td>Nutrition &amp; Food Sciences</td>
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<tr>
<td>Are Fundamental Motor Skills More Impaired Among Children with Autism Spectrum Disorder than is Expected Based on IQ Scores?</td>
<td>Behnaz Saghaei Dr. Kerri Staples</td>
<td>SHPK</td>
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<tr>
<td>Tracking Walking Recovery in Individuals with Motor Incomplete Spinal Cord Injury with Transcranial Magnetic Stimulation: Preliminary Findings</td>
<td>Sheba Sajan Dr. Hui-Ting Goh</td>
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Monica Flores
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Coral Parks
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Dr. Danielle Woolery
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