The Seventeenth Annual
Undergraduate Research Symposium

Conference Program
April 20, 2024

Hosted by the Elliott T. Bowers
Honors College Student Ambassadors
Honors Ambassadors are the face of the Elliott T. Bowers Honors College. During special Honors events, the Ambassadors play important roles as hosts and greeters, table leaders, or panel participants.

Being an Ambassador involves taking on certain responsibilities—the willingness to give up time, often in the evenings or weekends—in the interest of supporting Honors College events. Ambassadors need to be able to represent the college and the university well, both in deed and word. There are 24 ambassadors representing every class and every academic college at the University.
Sponsor Recognition

A Message from Our Faculty Advisor

A Message from Our Co-Chairs

About URS and the Elliott T. Bowers Honors College

Sessions:

A- Oral-Media-Panel Presentations

B- Oral-Media-Panel Presentations

C- Poster Presentations

D- Oral-Media-Panel Presentations

All oral-media sessions will be held on the second floor of the LSC. The poster session will be held in the LSC White Ballroom.
8:00-8:45 AM  Registration & Breakfast  LSC: Piano Lounge

8:45-8:55 AM  Welcome and Opening Remarks  LSC: Piano Lounge

9:00-10:20 AM  Session A, Oral-Media Presentations
10:30-11:50 AM  Session B, Oral-Media Presentations  LSC: 2nd floor

12:00-1:15 PM  Lunch  LSC: Orange Ballroom

1:30-2:50 PM  Session C, Poster Session  LSC: White Ballroom

3:00-4:20 PM  Session D, Oral-Media Presentations  LSC: 2nd floor

4:30-5:00 PM  Closing and Awards Ceremony  LSC: Orange Ballroom

**All oral-media sessions will be held on the second floor of the LSC. The poster session will be held in the LSC White Ballroom.**
The Undergraduate Research Symposium
Is Sponsored By:

Elliott T. Bowers Honors College
Sam Houston State University

The URS especially thanks Dr. Hiranya Nath for his generous Assam Scholarship.
The Texas State University System Board of Regents,

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Kelvin Elgar, Student Regent, Beaumont

Honors Council

Kimberly Bell .................................................. Dean, Honors College
Dee Barras .......................................................... Physics
Maria Botero Jaramillo ......................................... Philosophy
Cassandra Gonzales .......................................... Criminal Justice
Jessica McQueston ........................................ Education
Jason Ingram .................................................. Criminal Justice
Praphul Joshi .................................................. Population Health
Kevin Clifton .................................................. Art
Victoria Lantz .................................................. Theatre
Joyce McCauley ................................................ Education
Kenneth McIntyre ........................................ Political Science
Ashton Mouton ................................................ Business
Van Vung Pham ............................................... Computer Science
Kathleen Ratajczak ....................................... Victim Studies
Kevin Sweeney ................................................ Business
Jeffery Wozniak ............................................... Biology
Hannah Menendez ........................................ Newton Gresham Library
Barna Abed el Satar ................................... Family & Consumer Science
URS History and Mission Statement

In 2008, the Honors College Student Ambassadors began the Undergraduate Research Symposium (URS). The goal was two-fold: to share research with fellow students and to gain experience in preparation for future conferences. Today, the URS continues to provide a forum where all SHSU undergraduate students can present their research to others in a professional environment while giving students the opportunity to gain expertise in their field and to receive feedback from other scholars and members of the academic community. Additionally, the URS offers three $500 awards: The Assam Scholarship for Honors Research Award, The Honors College Award for Best Overall Oral-Media Presentation, and the Honors College Award for Best Overall Poster. Other awards include honorable mention awards, the E.U.R.E.C.A. Award for Best FAST Oral Media Presentation, and the E.U.R.E.C.A. Award for Best FAST Poster. The URS is supported by the faculty and staff of the Elliott T. Bowers Honors College.

A Message from our Co-Chairs

Welcome to the Seventeenth Annual Undergraduate Research Symposium! We appreciate your interest and participation. It is because of scholars like you that we can create an environment for our students to pursue academic excellence and develop as a professional. Along with our fellow Honors Ambassadors, we are grateful to be able to provide this opportunity for our students, staff, faculty, and audience members.

The Symposium allows undergraduate students to develop their professional skills by presenting the research they have completed on and off campus during their time at Sam Houston State University. Over the last ten years, we have seen a substantial increase in the amount of presenters and presentations at the conference. Compared to the Seventh Annual URS in 2014, the number of presenters and presentations has more than doubled. When the pandemic hit, our attendance was undeniably affected, but the symposium is now back to our pre-pandemic attendance. We are so grateful that so many SHSU students decide to benefit from the opportunities that the conference provides.

Not only does the URS develop students’ professional skills, but it allows students to also connect with other students and faculty. These qualities prove to be advantageous for students who wish to pursue further research and further development. A goal of this event is to facilitate an environment that encourages the success of students that present or attend as an audience member. We want our students to feel passionate about research and take pride in the work they have been able to accomplish during their college career.

By hosting this conference, we have the remarkable ability to provide a supportive academic environment to Sam Houston undergraduate students. Every person who attends the URS, no matter their role, contributes to the fostering of research and the support of SHSU students at this unique event each year. The URS is the largest conference at Sam Houston State University, and our hope is that over the coming years, with support from amazing people like you, we are able to grow this experience even more. On behalf of the Co-Chairs, we want to thank you for your contribution to the Seventeenth Annual Undergraduate Research Symposium.
Welcome to the Seventeenth Annual Undergraduate Research Symposium, hosted by the Ambassadors of the Elliott T. Bowers Honors College! This conference provides a professional environment in which student scholars can share their past, current, and ongoing research. Several of our past participants have gone on to experience inspiring professional endeavors which have had their foundation at this conference. For those faculty who have worked closely with their students during preparation for the URS, this accomplishment is a source of enormous gratification. The URS also underscores Sam Houston State University’s designation as an R2 institution, one which is dedicated to research.

The current co-chairs Jessica Bilsing and Virginia Patton and the Honors Ambassadors have spent this past year hard at work organizing workshop sessions and practice sessions, encouraging participation, and making sure this live event marks a celebration of SHSU undergraduate research. Their passion for this event, their dedication to research, and their hard work stands as a hallmark for future Ambassador co-chairs. I thank them for their continuing support and guidance.

Our motto reads: The intricate path to discovery begins with research. If you look closely at the image of the URS maze, you will recognize that there is one consistent path to the center, no matter how convoluted it might seem at first glance. Consider that this image represents both the research process as well as the attendant self-discovery within that process. Through research we not only question, discover, and create scholarship, but we also come to understand our own potential within scholarly communities. Symbolically we enter the maze, make the turns, and work our way to the center, to discovery.

These students are not the only ones who have dedicated themselves to furthering what is a nation-wide effort to promote undergraduate research. Others have been just as vigorous in their support, including faculty advisors who have helped students with their research, family and friends who have come to show their support, faculty and graduate student volunteers who have devoted their Saturday to giving presenters feedback, and staff members who have been working overtime to ensure that everyone is fed, given gift bags, directed to the right rooms, and checked in properly. The Honors College and generous support from SHSU fund this event because promoting and participating in undergraduate research is powerful and affirming. We recognize and deeply appreciate their active support of this endeavor. Finally, we would like to thank Dr. Hiranya Nath, Professor of Economics, for his very generous Annual Assam Scholarship Award.

A Message from our Faculty Advisor

Dr. Tracy Bilsing
URS Faculty Co-Chair
Assistant Dean of the Elliott T. Bowers Honors College
### Honors Faculty and Staff

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<tr>
<th>Position</th>
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<td>Dean</td>
<td>Kimberly Bell, Ph.D.</td>
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### The Undergraduate Research Symposium

**Faculty Committee**

- Dr. Tracy Bilsing
- Dr. Patrick Lewis
- Dr. Kimberly Bell
- Dr. Justin Williams
- Dr. Paul Eaton

### Honors College Ambassadors

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Session A
9:00 - 10:20

ROOM 230 A  Making Sense of the Natural World

**Exploring Trends in Oxidation: Profiling a Diketone Scaffold and Expanding Biocatalyst Applications to Organoboron Compounds**
*Katherine Foreman*
Faculty Advisor: Dr. Meagan Hinze

**Impacts of a Total Solar Eclipse**
*Charise Lincoln*
Faculty Advisor: Dr. Renee James, Dr. Scott Miller

**Synthesis of Dicarbonyl Scaffolds and Investigating Oxidation Outcome**
*Elizabeth Bloss*
Faculty Advisor: Dr. Meagan Hinze

**What is Going On? The Gene Waterproof is Required for Drosophila Eye and Head Development**
*Ashleigh Ogg*
Faculty Advisor: Dr. Mardelle Atkins

ROOM 230 B  Literature and Society

**The Criticism of Porphyria’s Lover**
*Destiney Poore*
Faculty Advisor: Dr. Audry Murfin

**Queer Identity and the Paradox of Shame in Giovanni’s Room**
*Carly Hannah*
Faculty Advisor: Dr. Kandi Tayebi

**An Alluring Nature: Wilde’s Use of Nature Symbolism and its Connection to Aestheticism within The Picture of Dorian Gray**
*Gunner Law*
Faculty Advisor: Dr. Kandi Tayebi

**The Parallels of Oppression: The Handmaids Tale vs. Present Society**
*Maria Rojas-Caballero*
Faculty Advisor: Dr. Benjamin Mitchell-Yellin
Session A  
9:00 - 10:20

**ROOM 241 A** Improving Technology

*Stars and Scripts: An Exercise in Reducing Astronomical Data Using Python*

**Gregory Pinkasavage**  
Faculty Advisor: Daniel Horenstein

*The Impact of the Printed Part Size on the Shrinkage and Density in Binder Jetting Additive Manufacturing of Ceramics Powder*

**Chris Smith**  
Faculty Advisor: Dr. Suleiman Obeidat

*Building a Computer from Discrete Components*

**Michael Johnson-Moore**  
Faculty Advisor: Dr. Iftekhar Basith, Dr. Abdulhamid Zaidi

*Searching for Switchbacks and Solar Wind Acceleration*

**Juston Ward**  
Faculty Advisor: Dr. James Dent

**ROOM 241 B** Women’s Health

*Hormonal Contraceptive Use and Breast Cancer*

**Hailey Davis, Abby Hooks, Daisy Thornton**  
Faculty Advisor: Dr. Lilibeth Al-Kofahy

*Impacts of Toxic and Nutritional Metals on Thyroid Hormone Biomarkers in Adolescents and Pregnant Women*  
– A pilot study

**Karen Carreon Garcia**  
Faculty Advisor: Dr. Khalid Khan

*The Non-pharmacological and Pharmacological Effects of the Labor and Delivery Process*

**Abigail Orekoya, Grace Udugbezi, Myra Wamala**  
Faculty Advisor: Dr. Kimberly Bell

*Racism and Bias in Maternity Settings: A Literature Review*

**Kellie Foster, Andrea Rincon Morales, Stephanie Wadewitz, Keily Zamudio**  
Faculty Advisor: Dr. Lilibeth Al-Kofahy

Scan For Abstracts
Session B
10:30 - 11:50

ROOM 230 A Work and Play

Nintendo’s Influence on America
Chloe Trail
Faculty Advisor: Katherine Gaskamp

Enabling Positive Work Ethic with Modern Innovation
Dylan Phillippi
Faculty Advisor: Dr. Ali Mchiri

The Problem of Redundancy in Capitalist Production
Dominic Brandolini
Faculty Advisor: Dr. Thomas Brommage

The DNA Dialogues: How Developmental Diversity Shapes Social Skills
Stephanie Berry
Faculty Advisor: Dr. Susan Duncan

ROOM 230 B Sustainability

Enhancing Sustainability and Cost Efficiency in Concrete Construction: Investigating the Viability of Fly Ash Replacement for Cement
Bryan Alonso, David Linares, Eric Guzman Medrano, Yovany Portillo, Christian Reyes
Faculty Advisor: Dr. Momen Mousa

Towards Greener Concrete: Exploring Natural Pozzolans as Sustainable Alternatives to Fly Ash
Tanner Davis, Barrett Novak, Caleb Douglas, Ethan Walters
Faculty Advisor: Dr. Momen Mousa

Exploring Bottom Ash as a Sustainable Alternative to Fly Ash in Concrete: Addressing Cost, Environmental, and Supply Chain Challenges
Trevor Colwell, Mason Jones, Ryley Marko
Faculty Advisor: Dr. Momen Mousa

Metakaolin as a Sustainable Substitute for Fly Ash in Concrete: Addressing Cost, Environmental, and Supply Chain Challenges
Ron Rawls
Faculty Advisor: Dr. Momen Mousa
Session B
10:30 - 11:50

Room 241 A Real Women & Imagined Men

*Literature and the Patriarchy: What about Men?*
   - Alivia Ragsdale
   - Faculty Advisor: Dr. Benjamin Mitchell-Yellin

*The Real-Life Riveter: A Microhistory of Hazel Porterfield*
   - Lee Ann Ridgley
   - Faculty Advisor: Dr. Jessica McQueston

*Are Makeup Practices an Evolutionary Product? A Philosophical Inquiry*
   - Emily Garza
   - Faculty Advisor: Dr. Thomas Meagher, Dr. Thomas Brommage

*My Boyfriend’s a Robot: Artificial Intelligence and Attachment Theory*
   - Hema Iyer
   - Faculty Advisor: Dr. James Stykes

Room 241 B Emotional Health

*Relevancy of Intersectionality Regarding Intervention Counseling for Sexual Abuse Victims*
   - Kalie Sorrells
   - Faculty Advisor: Dr. Kimberly Bell, Dr. Cassandra Young, And Emily Garner

*The Role of Campus Connectedness in Addressing Student Mental Health*
   - Haley Cook
   - Faculty Advisor: Dr. Chelsea Ratcliff

*The Connections of Child Abuse and Revictimization; a Meta Analysis*
   - Lillian Tischer
   - Faculty Advisor: Dr. Janet Mullings

*Timeline and Results of the 2024 CHSS Skills Challenge*
   - Jessica Bilsing, Guadalupe Centeno, Heidi Parra
   - Faculty Advisor: Dr. Zachary Doleshal

Scan For Abstracts
Agriculture

Gender Income Inequality: Women’s Perspective  
Maria Arbizu, Cynthia Townsend, Gaspar Vega  
Faculty Advisor: Dr. Shyam Nair, Dr. Danhong Chen, Dr. Wolfskill

Women in the Workplace: Analysis of Factors Influencing Job Satisfaction  
Emilie Brandes, Savannah Monahan, Rana Francone  
Faculty Advisor: Dr. Shyam Nair, Dr. Danhong Chen, Dr. Wolfskill

Analysis of the Traits and Habits of Conscious Dieters  
Brooke Burkhalter, Cody Fisher, Lilly Kaspar  
Faculty Advisor: Dr. Shyam Nair, Dr. Danhong Chen, Dr. Wolfskill

Analysis of the Interaction of Stress and Binge Eating in Women  
Mikaela Calami, Emily Freise, Sean Warren  
Faculty Advisor: Dr. Shyam Nair

The Relationship Between Food Choices and Health for Women  
Mackenzie Grimes, Andrew Jensen, Delaney Northern, Alex Peralta  
Faculty Advisor: Dr. Shyam Nair, Dr. Danhong Chen, Dr. Art Wolfskill

Propagation Protocols for Southeastern Piney Woods Species  
Ashley Hadley  
Faculty Advisor: Dr. Kaitlin Hopkins

Euphorbia  
Alicia Louw, Albert Tsai, Marshall Wylie  
Faculty Advisor: Dr. Kaitlin Hopkins

Biological Sciences and Chemistry

The Quantification of Non-Metric Traits in the Human Skeleton  
Emily Breeze  
Faculty Advisor: Dr. Patrick Lewis

The Convoluted Optic Nerve of Chameleons  
Emily Collins  
Faculty Advisor: Dr. Juan Daza

Biology Laboratory Teaching Assistant Influence on Undergraduate Course Outcomes  
Noah Bliss  
Faculty Advisor: Dr. Steven Koether

From Publication to Practice: Do We Practice What We Preach?  
Sierra Selman  
Faculty Advisor: Dr. Steven Koether

Construction of Fish Species Composition Surveillance Database of Lake Raven, Huntsville Texas using Environmental DNA  
Oyinoluwa Bola, Tristan Getgood, Sabrina Perico  
Faculty Advisor: Dr. Sharmin Hasan

The Relationship Between Pollinators and the Carolina Jessamine  
Karolina Carreon-Garcia, Kayla Osbourne, Geneva Pritchett  
Faculty Advisor: Dr. John Pascarella

Cryptic Diversity of Puerto Rico Highland Geckos  
Victoria Brossig  
Faculty Advisor: Dr. Juan Daza
Scoring Human Decomposition via the Megyesi System  
Bethany Castillo  
Faculty Advisor: Dr. Sibyl Bucheli

Skull Postnatal Development of the European Leaf-Toed Gecko  
Rebecca Mundo  
Faculty Advisor: Dr. Juan Daza

Predator Odor Detection by Carolina Wrens (Thryothorus ludovicianus)  
Andrea Olise, Korede Omoniyi  
Faculty Advisor: Dr. Diane Neudorf

ACL Injuries  
Faresa Fallah  
Faculty Advisor: Dr. Patrick Lewis

Understanding Facial Fractures  
Kenady Vandiver  
Faculty Advisor: Dr. Patrick Lewis

Achilles Tendon Anatomy and Injury Patterns  
Temidayo Phillip  
Faculty Advisor: Dr. Patrick Lewis

Digital Microscope Imaging of Bees in the Genus Mellisodes  
August Platek  
Faculty Advisor: Dr. John Pascarella

Growth and Survival of Nontuberculous Mycobacteria with Increasing Temperature  
Layla Behrens, Kade Brackin  
Faculty Advisor: Dr. Todd Primm

The Mouse Gut Microbiome Composition is not Significantly Altered by Olive Oil Treatment  
Madison Wolfrom  
Faculty Advisor: Dr. Todd Primm

Characterization of the Role of dennd5b During Embryonic Development  
Timothy Tomkins, Alicia Mendoza  
Faculty Advisor: Dr. Sharmin Hasan

Taking the Complexity Out of an Aeroponics Growing System: Growing Herbs and Greens for Science Teaching and Learning  
Anna Maloney, Amanda Broussard  
Faculty Advisor: Ava Fujimoto-Strait

San Antonio Climate Normals and the Effects of Global Warming  
Lauren Lozano  
Faculty Advisor: Dr. Ross Guida, Dr. Joshua Gilliland

Arctic Islandica Growth During the Pliocene  
Skylin Bromonsky  
Faculty Advisor: Dr. David Moss

Persistence of DNA in Water From an Actively Decomposing Cadaver for Human Identification  
Erika Poole  
Faculty Advisor: Dr. Donovan Haines, Dr. Sheree Hughes

Integrating Realistic Industrial Models and Empirical Analysis in Chemistry Education: A Focus on Ternary Systems and Equilibrium Constants for Skill Development  
William Villarreal  
Faculty Advisor: Dr. Adrian Villalta-Cerdas
Session C
1:30 - 2:50

**UNIPROBE - Universal Proximity Probe**
- Luke Bach, Michael Coleman, Jonathan Sulugui
  - Faculty Advisor: Dr. Recayi Pecen

**Mini Super Computer**
- Nygel Butler, Lucas Mseeh, Goodness Nwawuihe
  - Faculty Advisor: Dr. Syed Hasib Akhter Faruqui

**Building and Testing an IOT Camera**
- Daniel Cano, James Foreman, James Grantland
  - Faculty Advisor: Dr. Recayi Pecen, Dr. Junkun Ma

**Automation of Production in a Greenhouse**
- Jadon Cardell, Haily Lozano, Morgan Singer
  - Faculty Advisor: Dr. Recayi Pecen, Dr. Iftekhar Ibne Basith

**Maintenance and Safety Application**
- Craig Dawson, Connor Kale
  - Faculty Advisor: Dr. Recayi Pecen

**Tree Trimming Robot**
- James Eisenhauer, Maximilian Hernandez, Clyde Law
  - Faculty Advisor: Dr. Recayi Pecen, Dr. Junkun Ma

**FieldsForge Homestead: Building Tomorrow**
- Fernando Erazo, Travis Lanford, Dawson Pope
  - Faculty Advisor: Dr. Recayi Pecen, Dr. Ebrahim Karan

**Soldering Delta Robot**
- Cassiel Fara, Bryson Moore, Michael Mares
  - Faculty Advisor: Dr. Junkun Ma

**Ammunition Inspection System**
- Lorenzo Farrales, Christian Gutierrez Lopez
  - Faculty Advisor: Dr. Recayi Pecen

**Integrating Haptic Gloves into Virtual Reality**
- Paige Horton, Martin Hust, James Wyman
  - Faculty Advisor: Dr. Ulan Dakeev

**Delta Robot**
- Kedar Jagarnauth, Legima Langmia, Chris Smith
  - Faculty Advisor: Dr. Junkun Ma
Session C
1:30 - 2:50

**Mold Injection Housing**
*Allen Jeffery, Henry Register, Bradley Proctor*
Faculty Advisor: Dr. Junkun Ma, Dr. Recayi Pecen

**Table-Top Microgrid Demonstration**
*Madison Lane, Rebecca Meyers, Parker Spence*
Faculty Advisor: Dr. Recayi Pecen

**RMLD Component Design and Manufacturing**
*Gianni Marinelli, Kelly Oliver*
Faculty Advisor: Dr. Recayi Pecen

**Electronic Ratchet Apparatus**
*Anthony Miranti, Felix Perkins, Julie Thurston*
Faculty Advisor: Dr. Suleiman Obeidat, Dr. Recayi Pecen

**Solar Parking Structure**
*Trevon Mosley, Alexander Velasquez, Maxwell Zeutschel*
Faculty Advisor: Dr. Recayi Pecen

**IoT Security: A Case Study on a Ring Security System**
*George Hendrickson*
Faculty Advisor: Dr. Narasimha Shashidhar, Dr. Cihan Varol

**Criminal Justice & Psychology**

*The Influence of Religion: Examining its Association with Personality*
*Ryan Munoz*
Faculty Advisor: Dr. Adam Natoli

*Representing Victims in Juvenile Lifer Parole Hearings: A Mixed-Methods Evaluation of Victim Impact*
*Jaritzy Ochoa, Daniel Rodriguez*
Faculty Advisor: Dr. Stuti Kokkalera

*A Statutory Analysis of State-Level Protections for Immigrant Human Trafficking Survivors*
*Angela Moreno*
Faculty Advisor: Dr. Cassandra Gonzalez

*Medical Misconduct: Mental Health in Vulnerable Populations Behind Bars*
*Rachel Ziegler*
Faculty Advisor: Dr. Thomas Warren

*A Look into the Relationships Between Defense Mechanisms and Attachments Styles of Individuals Who Have Witnessed Domestic Violence of a Family Member Compared to Those Who Have Not*
*Karina Perez*
Faculty Advisor: Dr. Adam Natoli

*Sexual Consent Perceptions Vary by Target Intoxication and Evaluator Sex*
*Jordan Dozier*
Faculty Advisor: Dr. Daniella Cash

*Perceptions of Male-Versus Female-Perpetrated Grooming Behaviors*
*Lindsey Lanman*
Faculty Advisor: Dr. Daniella Cash

*Women in Policing*
*Della Duke*
Faculty Advisor: Dr. Elizabeth Hartsell
Session C
1:30 - 2:50

The Association Between False Memory and Verbal Fluency
Ryan Springs
Faculty Advisor: Dr. Jeffrey Anastasi

Exposing Injustice: This Misapplication of Criminal Justice Laws Against Black Women in Cases of Self-Defense
Makayla Nolen
Faculty Advisor: Dr. Melissa Meltzer

Test-Retest Reliability of the Emotional Regulation Knowledge Scale in Intellectual Developmental Disorders Population
Catarina Torres
Faculty Advisor: Dr. Adam Natoli

How Magnetic Fields Can Cure the Brain
Alexandra Andrews
Faculty Advisor: Dr. Matthew Fuller

Alexithymia’s Connection with Alcohol and Substance Use: Variations Between Hispanic/Latine and Non-Hispanic/Latine College Students
Joseph Sumamait
Faculty Advisor: Dr. Adam Natoli

Adonai Martinez
Faculty Advisor: Dr. Adam Natoli

Posttraumatic Growth as a Moderator of the Relationship Between Symptoms of Mental Illness and Quality of Life
Yuliana Garcia
Faculty Advisor: Dr. Adam Natoli

Comparing Racial Disparities in Incarceration and Sentencing: Impact on the Latino Community
Sophia Garcia-Gil Sarmiento
Faculty Advisor: Dr. Edna Velásquez

Substance Use’s Association with Defense Mechanisms: Differences Between Those who Have or Have Not Lived with Individuals Misusing Drugs
Ashlyn Le-Roy
Faculty Advisor: Dr. Adam Natoli

Social Support and its Impact on the Mental Health of University Student-Parents
Haidyn Hokit
Faculty Advisor: Dr. Bart Stykes

Student Perceptions of Emotional Support Animals on Campus
Ellen Claassen
Faculty Advisor: Jessica Lee

Education, Humanities, & Social Sciences

Taking the Complexity Out of an Aeroponic Growing System: Growing Herbs and Greens for Science Teaching and Learning
Amanda Brussard
Faculty Advisor: Ava Fujimoto-Strait

Student Engagement in the Middle School Classroom
Jazmine Mendez
Faculty Advisor: Dr. Jennifer Morrison
Session C
1:30 - 2:50

Protagonists: A Study of Gawain and Gulliver
Brooke Woodall
Faculty Advisor: Dr. Kimberly Bell

The Lost Voice: An Analysis of Slave Authorship/Censorship by White Writers and Abolitionist Rhetoric
D’ettra Johnson
Faculty Advisor: Dr. Kandi Tayebi

Floral Imagery in Early Female Literature
Jamie Albert
Faculty Advisor: Dr. James Landrum

Leveling Up: Video Games as a Storytelling Medium
Isabella Ortiz, Daniel Romero
Faculty Advisor: Dr. Matthew Fuller

Health Sciences

A Retrospective Analysis on the Relationship of Age, Personal Shooting Practice, and Years of Experience with Dynamic Shooting Scores
Kailea Oliver
Faculty Advisor: Dr. Jennifer Bunn

Tri-ing for Physical Activity: Experiences of Youth Sport Families in the Tri4Schools Non-Profit Program
Ethan Perez
Faculty Advisor: Dr. Mayrena Isamar Hernandez

A Key to Wellness and Disease Prevention
Christabel Ubah
Faculty Advisor: Kendall Gragert

The Influence of Screen Time on Pediatric Obesity
Isoken Aigbe
Faculty Advisor: Dr. Tracy Bilsing

Session D
3:00 - 4:20

ROOM 230 A Physical Health

How TBIs Increase the Risk of Criminal Behavior
Haleigh Geiger
Faculty Advisor: Kendall Gragert

6-Week Lagree Intervventional Case Series Study on Psychological, Posture, and Functional Movement Outcomes
Nia Matthews, Jose Romo
Faculty Advisor: Dr. Mayrena Hernandez

Obstacles Against Physical Education
Julian Villanueva
Faculty Advisor: Dr. Rachael Wilcox
Session D
3:00 - 4:20

ROOM 241 A War at Home & Abroad

The Osage Murders: Reign of Terror, Native American Rights, and FBI Investigation
Jamie Albert
Faculty Advisor: Katherine Gaskamp

Double Victory: A Study of African American Activism During World War II
Emily Allen
Faculty Advisor: Dr. Jeffery Littlejohn

Selma to Saigon: Black Protest and Antiwar Activism during the Vietnam War. 1964-1968
Katherine Shaver
Faculty Advisor: Dr. Lydia Fox, Dr. Jeffrey Littlejohn

Beyond the Battlefield: Understanding Psychological Warfare during the Vietnam War
Peter McDow
Faculty Advisor: Dr. Tracy Bilsing

ROOM 241 B Understanding Birds & Beasts

Dissent in Dogs: Animal Welfare in Research
Ryan Springs
Faculty Advisor: Dr. Maria Botero

Comparing Habitat Distribution Models of Destroying Angels
Travis Rhodes
Faculty Advisor: Dr. Christopher Randle

Creating Species Distribution Models of the Numbat (Myrmecobius fasciatus) Using Biotic Factors
Travis Rhodes
Faculty Advisor: Dr. Christopher Randle

Species Distribution Modeling for the Endangered Houston Toad Anaxyrus houstonensis (Bufonidae)
Kinsey Holbrook
Faculty Advisor: Dr. Christopher Randle

A Test of Predator Odor Recognition in Rural and Urban Caroline Wrens
Kendall Kinsey
Faculty Advisor: Dr. Diane Neudorf

Scan For Abstracts
The Honors College Ambassadors would like to thank our faculty and graduate student moderators for taking the time to share their expertise with our student scholars.

Braedon Smith  
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Nabanita Baruah  
Ruby Rodriguez  
Lee Courtney
The intricate path to discovery begins with Research.