The Office of Undergraduate Research Presents

5TH ANNUAL
Humanities, Arts, Social and Behavioral Sciences, Education & Business Conference 2018

Saturday, November 17, 2018
Galloway Business Building
Lamar University, Beaumont, Texas
Dear Students, Colleagues and Guests,

I would like to welcome you to the Fifth Annual Conference on Humanities, Arts, Social and Behavioral Sciences, Education and Business. My dear students and fellow colleagues, I want to congratulate you for your accomplishment. Today is your day for celebration of your scholarly accomplishments. I would like to thank all the students and their faculty mentors for taking the time to share their work with the university community.

I understand that to many of us a college degree is just a ticket to a specific job but I firmly believe that our students deserve much more than just a job from college education. It should help them to connect diverse ideas and themes across many academic disciplines. Through this conference I am inviting our students to become a lifelong learner. I want them to understand how the humanities, the arts, the business, and the sciences enrich and affect one another. Moreover, the current polarizing society needs to communicate with each other across the demographic, socio political, and economic boundaries. Lifelong learner students who are involved in research and creative activities can communicate effectively, and can get a message across.

Students, I want you to know that the entire university community supports your research and scholarly activities. Many thanks go to Dr. Kenneth Evans, LU President and Dr. James Marquart, LU Provost and EVPAA. My special thanks to our keynote speaker Dr. Lynn Maurer. I could not have done this without the support of the OUR Advisory Committee. I want to thank the Center for History and Culture and the College of Arts and Sciences for sponsoring the awards in this conference. Finally, I would like to express my deepest appreciation of the time, energy and dedication that my two assistant directors of OUR Drs. Catalina Castillon and Cristian Bahrim, and our program assistant Mr. Nirmal Gope gives toward the success of the OUR.

Throughout this conference, I ask you to stay engaged, keep us proactive and help us shape the future of the Office of Undergraduate Research. My personal respect and thanks goes out to all of you.

Enjoy the Conference!

Regards,

Dr. Kumer P. Das, Director
The Office of Undergraduate Research
Lynn Maurer, who has more than 22 years of teaching, research and service, assumed the position as dean of Lamar University’s College of Arts and Sciences on July 1, 2018.

Maurer holds both the M.A. and the Ph.D. in political science from the Ohio State University. Her teaching areas focus on Western and Eastern Europe, women and international politics, democratization, and international conflict. Her political science research focuses specifically on Spanish politics since the transition to democracy and comparative legislatures, and has resulted in several publications and grants.

Her grants include a National Science Foundation ADVANCE IT-Catalyst Award project studying and promoting best university practices for the advancement of women faculty members in STEM disciplines. She has also served on a team grant of the Council of Graduate Schools on Completion and Attrition in STEM Master’s Programs, served on the service committee of the Graduate Record Exam board, and on the executive board of the Juvenile Diabetes Research Foundation in Indiana.

She is a member of the Midwest Political Science Association, the American Political Science Association and the National Council of Research Administrators.
5th ANNUAL HUMANITIES, ARTS, SOCIAL and BEHAVIORAL SCIENCES, 
EDUCATION & BUSINESS CONFERENCE 
AGENDA 
SATURDAY, NOVEMBER 17, 2018

All events will take place in Galloway Business Building

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<th>Time</th>
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<td><strong>8:00 AM – 8:30 AM</strong></td>
<td>Registration (Continental Breakfast will be served)</td>
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<td><strong>8:30 AM – 9:00 AM</strong></td>
<td>POSTER SESSION – I</td>
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<td>Galloway Business Building Lobby</td>
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<tr>
<td><strong>9:10 AM – 9:20 AM</strong></td>
<td>Dr. Kumer P. Das, Director of the Office of Undergraduate Research, Lamar University</td>
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<td>Dr. Cristian Bahrim, Assistant Director of the Office of Undergraduate Research, Lamar University</td>
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<td>Dr. Catalina Castillón, Assistant Director of the Office of Undergraduate Research, Lamar University</td>
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<tr>
<td><strong>9:20 AM – 9:25 AM</strong></td>
<td>Introduction of Speaker</td>
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<tr>
<td><strong>9:25 AM – 10:05 AM</strong></td>
<td>Dr. Lynn Maurer,</td>
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<td>Dean, College of Arts &amp; Sciences, Lamar University</td>
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<tr>
<td>Time</td>
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<tr>
<td>10:15 a.m.</td>
<td>The Ability of Clinicians to Deliver Conversation Intervention</td>
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<td>10:35 a.m.</td>
<td>Irish-Catholic Discrimination in 19th Century America</td>
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<td>10:55 a.m.</td>
<td>Rip, Roar, and Roll through the 1900s</td>
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<td>10:15 a.m.</td>
<td>Santería: The Blending of Two Worlds</td>
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<td>10:35 a.m.</td>
<td>Exile in “Niágara”. A poem by José María Heredia</td>
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<td>10:55 a.m.</td>
<td>Clorinda Matto de Turner and Her Vision for the Woman</td>
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<td>10:15 a.m.</td>
<td>Social Media and Fidelity</td>
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<td>10:35 a.m.</td>
<td>How Americans View Air Pollution</td>
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**Session 1A - Oral Presentation, Landes Auditorium**

Chair: Dr. Bianca Easterly, Department of Political Science
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<td>10:55 a.m. – 11:15 a.m.</td>
<td>Sufferings of the Soldiers during the American Civil War</td>
<td>Narciso Martinez, Department of History</td>
<td>Mentor: Dr. Gwinyai P. Muzorewa</td>
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<td>11:15 AM – 12:00 PM</td>
<td>Lunch Break</td>
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<td>12:00 PM – 12:10 PM</td>
<td>Group Picture</td>
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<td>12:15 PM – 12:45 PM</td>
<td>Poster Session - II</td>
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<td>12:50 p.m. – 1:50 p.m.</td>
<td><strong>Session 2A - Oral Presentation, Landes Auditorium</strong></td>
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<td>Chair: Dr. Margot Gage, Department of Sociology, Social Work and Criminal Justice</td>
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<td>12:50 p.m. – 1:10 p.m.</td>
<td>Does Physical Education Affect Student Performance?</td>
<td>Bianca Moore, Department of Sociology</td>
<td>Mentor: Dr. Margot Gage</td>
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<td>1:10 p.m. – 1:30 p.m.</td>
<td>Marijuana Use and Bullying in Schools</td>
<td>Je’Keira Spivey, Department of Sociology</td>
<td>Mentor: Dr. Margot Gage</td>
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<td>1:30 p.m. – 1:50 p.m.</td>
<td>Mental Health and Socioeconomic Status in Malawi and the Netherlands</td>
<td>Cody Riley, Department of Sociology</td>
<td>Mentor: Dr. Margot Gage</td>
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<td>12:50 p.m. – 1:50 p.m.</td>
<td><strong>Session 2B - Oral Presentation, Galloway 122</strong></td>
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<td>Chair: Dr. Terri Davis, Department of Political Science</td>
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<td>12:50 p.m. – 1:10 p.m.</td>
<td>Homeless Female Veterans with Children: The Unseen Faces of Our Country’s Homeless Veterans</td>
<td>Angela Hutson, Department of Political Science</td>
<td>Mentor: Dr. Terri Davis</td>
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<td>1:10 p.m. – 1:30 p.m.</td>
<td>The Effect of Formal Resolutions or Statements given by Nations and</td>
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Concerning the Israeli-Palestinian Conflict: Who Helps Most?  
Ali Hamza, Department of Political Science  
Mentor: Dr. Terri Davis

1:30 p.m. – 1:50 p.m.  
Zululand: The Effects of the Zulu and other South African Powers on European Colonization and Institutionalized Racial Discrimination  
Dylan Knau, Department of History  
Mentor: Dr. Gwinyai P. Muzorewa

Session 2C - Oral Presentation, Galloway 124

12:50 p.m. – 1:50 p.m.  
Your Health is in Your Hands: Destigmatizing Stress in LU Students  
Abigail Smith, Caleb Garza and Ethan Thames  
Department of English and Modern Languages  
Mentor: Dr. Amy Smith

1:10 p.m. – 1:30 p.m.  
How to Train Your Student: Empowering Faculty with Student Success Strategies  
Jade Parbs, Morgan Martin, Ayokunle Oni, and Maria Villa  
Department of English and Modern Languages  
Mentor: Dr. Amy Smith

1:30 p.m. – 1:50 p.m.  
Pre-Service Teachers’ Awareness & Attitude towards Environmental Education  
Shanetta Williams, Department of Teacher Education  
Mentor: Dr. Mamta Singh

Session 3A-Oral Presentation, Landes Auditorium

2:00 p.m. – 3:00 p.m.  
Mestizo Pride In the writings of El Inca Garcilaso de le Vega  
Leonardo Ibarra, Department of English and Modern Languages  
Mentor: Dr. Catalina Castillón

2:00 p.m. – 2:20 p.m.  
A Comparative Analysis on LGBTQ+ Rights in Latin-America  
Andrea Vanessa Sierra, Department of English and Modern Languages  
Mentor: Dr. Jaime Retamales

2:20 p.m. – 2:40 p.m.  
Comparison of the Feminist Themes in Sor Juana’s Hombres Necios and Respuesta a Sor Filotea  
Maxwell Taylor, Department of Spanish  
Mentor: Dr. Catalina Castillón
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<td><strong>Session 3B-Oral Presentation, Galloway 122</strong></td>
<td>Chair: Dr. Gevorg Sargsyan, Department of Finance and Economics</td>
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<td>2:00 p.m. – 2:20 p.m.</td>
<td>Do States Play a Role in Children's Food Choices?</td>
<td>Lindsey Johnson, Department of Sociology</td>
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<td>2:20 p.m. – 2:40 p.m.</td>
<td>Improving Non-Profit Strategic Planning</td>
<td>Hannah Rumsey, College of Business</td>
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<td>Mentor: Dr. Henry Venta</td>
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<td>2:40 p.m. – 3:00 p.m.</td>
<td>The effect of Statutory and regulatory protection in investment decision in Australia, Canada, Pakistan, and the United Kingdom.</td>
<td>Syed Ali, Department of Finance and Economics</td>
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<td>2:00 p.m. – 3:00 p.m.</td>
<td><strong>Session 3C-Oral Presentation, Galloway 124</strong></td>
<td>Chair: Dr. Ismatara Reena, Department of Biology</td>
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<td>2:00 p.m. – 2:20 p.m.</td>
<td>The death of Moctezuma in Bernal Díaz del Castillo's Historia Verdadera</td>
<td>Emily Trahan, Department of Modern Languages</td>
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<td>Mentor: Dr. Catalina Castillon</td>
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<td>2:20 p.m. – 2:40 p.m.</td>
<td>To Vape or Not to Vape?</td>
<td>Kaitlyn Medley, Department of Sociology</td>
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<td>Mentor: Dr. Margot Gage</td>
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<td>2:40 p.m. – 3:00 p.m.</td>
<td>Perception of Bangladeshi Students at North-American Institutions about their English Language Classroom Experience at Grade 1-12 in Bangladesh</td>
<td>Nirmal Gope, M.Ed.</td>
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<td>Mentor: Dr. Ismatara Reena</td>
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<td>3:10 p.m. – 3:45 p.m.</td>
<td>AWARD CEREMONY AND CLOSING REMARKS</td>
<td>Dr. Mary L. Scheer</td>
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<td>Professor of History, Lamar University</td>
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<td>Director, The Center for History and Culture</td>
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**Poster Sessions Chairs:**
Dr. Ashley Dockens, Department of Speech and Hearing Sciences
Dr. Heather Reading, Department of Speech and Hearing Sciences
Dr. Jaime Retamales, Department of English and Modern Languages
1. Alcohol use and Sexual Behavior in Adolescent Males in Texas  
   Kwanita Adair, Department of Sociology  
   Mentor: Dr. Margot Gage

2. Knowledge, Use, and Barriers on On-Campus Hearing Services and Accommodations for College Students  
   Kimberly Boase, Department of Speech and Hearing Sciences  
   Mentors: Dr. Heather Reading and Dr. Ashley Dockens

3. The Road to Plessy v. Ferguson  
   Natalia Calderon, Department of History  
   Mentor: Dr. Gwinyai P. Muzorewa

4. Texas History: Republic to Annexation  
   Iyanna Henderson, Department of History  
   Mentor: Dr. Gwinyai P. Muzorewa

5. Use of Virtual Reality for Vestibular Disorders Rehabilitation  
   Sierra Hunnicutt, Department of Speech and Hearing  
   Mentor: Dr. Lilian Felipe

   Bryan A. Landrum, Department of Psychology  
   Co-authors: Eli J. Barclay and Ken M. Carona  
   Mentor: Dr. Raymond Doe

7. Work-related Musculoskeletal Disorders and Psychological Factors in Nurses: A Conceptual Model  
   William Perry, Dishman School of Nursing  
   Mentor: Dr. Cynthia M. Pipkins
The effect of Statutory and Regulatory Protection in Investment Decision in Australia, Canada, Pakistan, and the United Kingdom.

Syed Ali, Department of Finance and Economics
Mentor: Dr. Gevorg Sargsyan

The research question of this study is: How does statutory and regulatory protection affect investment decision in Australia, Canada, Pakistan, and the United Kingdom? Also, purpose of research is to contrast and compare the results of this study with the paper of Fernandez, French, Mari, and Sargsyan (FFMS). Especially we are motivated to compare future discoveries in Australian, Canadian, Pakistani, and the United Kingdom markets with the United States results in the work of FFMS. Australia, Canada, and the United Kingdom are Common law countries, Pakistan is Common law and Sharia law country. It will be interesting to detect differences, similarities, and reach conclusions.

Before making decisions, investors must take into consideration various factors. Among those factors are: the market environment, trust to the corporation, the short and long-term expectations from investment, etc. Investors are operating in a risky atmosphere and there are various cultural, legal and social barriers. Investment decision makers take into return, liquidity, and statutory and regulatory protection. And our final goal is to discover the effect of Statutory and regulatory protection in investment decision in Australia, Canada, Pakistan, and the United Kingdom.

Our strategy is to replicate the existing methodology developed by FFMS in this research. We are planning to analyze Australian, Canadian, Pakistani, and the United Kingdom securities markets by implementing the survey and analyzing the obtained data. The survey will be developed and delivered to 200 investment companies and financial advisory firms in each target market of our study.

The Ability of Clinicians to Deliver Conversation Intervention

Meagan Cooper, Department of Speech and Hearing Sciences
Mentor: Dr. Jamie Azios

Conversation is the primary mode of communication for humans and is responsible for how we express our emotions, share our experiences, and acquire and facilitate new information. Persons with aphasia (PWA) typically lack the capacity to access both verbal and nonverbal language, and are incapable of replicating authentic and meaningful conversation. Conversation intervention (CI) is a semi-modern therapy aimed at improving the conversational skills of aphasic individuals, with a focus strongly on the PWA’s ability to convey their message rather than focusing solely on the restoration of language and grammar. The purpose of this study is to quantify four clinician-led shaping strategies and to observe their effectiveness on conversational turns of PWA. Embedded corrections generated immediate self-repair more often than any other strategy. Positive conversational reactions and bracketed critiques served as reinforcement that encouraged PWA to persist in using reparative strategies, such as writing and gestures. As presented in FAC, conversational contingencies were used whenever the PWA’s utterance was incomprehensible and embedded corrections were used whenever the clinician was able to implicitly
repair a PWA’s error after discerning their intended meaning. As presented in FAC, conversational contingencies were used whenever the PWA’s utterance was incomprehensible and embedded corrections were used whenever the clinician was able to implicitly repair a PWA’s error after discerning their intended meaning. In conclusion, it is evident that novice clinicians are competent enough to implement CI using the FAC approach and they are effective on PWA.

Social Media and Fidelity

*Kimberly Delcambre, Department of Sociology*
*Mentor: Dr. Margot Gage*

Americans are using more social media. This has considerable impact on our lives. There are over 84.8 million Snapchat users in America. We will examine the relationship between Snapchat usage and American’s value of fidelity. The most recent (2016) General Social Survey was used to examine Snapchat usage and adulterous behavior. Participants (n=311) were males and females aged 18 and older.

Low-income single women in good health between the ages of 18-34 represent the majority of Snapchat users, whereas low-income single men in good health over the age of 35 represent the majority of adulterers. We found 60% of Snapchat users reported they have never been married. It appears that 5% of Snapchat users reported cheating on their spouses.

It appears that few Snapchat users cheat on their spouses. This could be due to low representation of married Snapchat users. Further investigations of different social media platforms that encompass a larger portion of the married population might be the next step in research on fidelity and social media use.

Santería: The Blending of Two Worlds

*Kaily Garcia, Department of English and Modern Languages*
*Mentor: Dr. Jaime Retamales*

Two cultures cannot combine without each leaving a mark on the other. This fact is evident in the way the Spanish and African cultures have mixed in certain Caribbean and South American cultures, particularly, in Cuba. Even though the Spanish enslaved and oppressed the African people they kidnapped, the African culture and religion has persevered to this day, though not without Catholic-Spanish influences. The Yoruba religion and the Catholic religion merged to form something different from both of them, Santeria. This paper uses library and internet research to show that the doctrines of both Yoruba and Catholicism were particularly suited to this melding, despite the differences between the two religions.

The Effect of Formal Resolutions or Statements given by Nations and concerning The Israeli-Palestinian Conflict: Who Helps Most?

*Ali Hamza, Department of Political Science*
*Mentor: Dr. Terri Davis*

The Israeli-Palestinian conflict has been the subject of political debate since 1947. (Karsh 2009). In this paper, I examine how formal resolutions or statements by various countries impact the conflict. Specifically, I look at two countries that are not geographically proximate to the conflict - the United States and Canada - and two countries that are geographically proximate the conflict - Egypt and Jordan - and
examine how formal resolutions or statements taken by the respective countries impact the Israeli-Palestinian conflict with respect to the protest intensity of both countries, the response of the international community, and diplomatic relations regarding the formal resolution, statement, or actions by the U.N. I hypothesize that countries that are geographically closer to the conflict will promote executive policies that are more neutral and objective than those advanced by countries further away from the conflict. I conclude with a discussion about the current state of the Israeli-Palestinian conflict and a proposal for addressing the conflict based on the findings of my research.

**Exile in “Niágara”. A poem by José María Heredia**
*Elvira Hernandez, Department of English and Modern Languages*
*Mentor: Dr. Catalina Castillon*

This is a literary analysis of the poem “Niágara,” by the 19th century Cuban poet José María Heredia (1803-1839). After a brief description of his life, there will be an analysis of the poem’s form and content. Many critics have discussed this poem. For example, Aida M. Beaupied argues that the poem “Niágara,” presents a sublime point of view in which nature inspires a transcendental experience and represents the poetic voice’s feelings. Adam Gover explains how exile affects Heredia’s romantic poetry and how the poem restores the connection between the exiled poet and his homeland, Cuba. Katherine Vallejo comments on the impressions that several visitors have declared to experience when visiting Niagara Falls, including Heredia, and how each one of them sees the Niagara Falls as a confrontation. Many of Heredia’s poems were affected by his exile and describe a nostalgic feeling about Cuba. This presentation will analyze Heredia’s “Niágara” as a great representation of literature of the Exile within the Romanticism literary movement.

**Homeless Female Veterans with Children: The Unseen Faces of Our Country’s Homeless Veterans**
*Angela Hutson, Department of Political Science*
*Mentor: Dr. Terri Davis*

The number of homeless female veterans increased by 7% between 2016 and 2017 compared with 1% for their male counterparts” (Abshire, 2018). While both female and male veteran homelessness increased, the rate of homelessness among female veterans increased at a 6% higher rate than that of male veterans (Abshire, 2018). In this paper, I compare the rates of homelessness among female veterans with those of homeless male veterans. I hypothesize that single female veterans who are mothers have a higher rate of homelessness than all other categories of veterans both male and female. I conclude the paper with an examination of the Veterans’ Administration’s treatment of veterans with respect to housing benefits.

**Mestizo Pride In the writings of El Inca Garcilaso de le Vega**
*Leonardo Ibarra, Department of English and Modern Languages*
*Mentor: Dr. Catalina Castillon*

El Inca Garcilaso de la Vega, is known as one of the great Spanish chroniclers of 16th century. Son of a Spanish Capitan and Incan Princess, he was born in Peru. He identified himself as mestizo, was well educated, and absorbed the cultures of both his mother and father. He uses his own experiences, recollections from relatives, and the oral and written testimony of others, to tell his own version of the Incas history and culture. This presentation will cover the life of El Inca and will analyze the preface to the
reader from his famous work, Comentarios Reales. I will analyze how his writings convey a message of defense and pride of his Incan culture. With the use of rhetorical elements, El Inca builds a relationship with his readers and gains credibility and confidence. He uses his mestizo identity to give an exclusive vision of the Inca culture.

How Americans View Air Pollution
Vanessa Jean, Department of History
Mentor: Dr. Margot Gage

Lamar University is located near a major refinery. Being in close proximity to refineries means a potential increase in air and water pollution. Prior research finds that minorities are more concerned with air pollution as compared to their white counterparts. In this study we examine views on air pollution across America. The 2016 General Social Survey was used to analyze adults’ ages 18-80 years old. Respondents were asked to report their perceptions of air quality. We also accounted for self-reported health, ethnicity and age. Preliminary results show that both men and women report poor air quality to be very dangerous. Conducting further research in South East Texas on perceptions in air quality is needed.

Perception of Bangladeshi Students at North-American Institutions about their English Language Classroom Experience at Grade 1-12 in Bangladesh
Nirmal Gope, M.Ed.
Mentor: Dr. Ismatara Reena

In Bangladesh, Students start learning English language from early grade in school and formally continue learning till college. Every grade has at least one English language course. The main purpose of the course is to improve four basic communication skills: reading, writing, listening, and speaking in English. However, there are thousands graduate and undergraduate students come to North America for study. After coming to USA and Canada, they have to communicate in English. Purpose of this pilot study is to know their perception about English Language Classroom Experience in Bangladesh on speaking, listening, reading, and writing skills. Data will be collected through survey monkey. The result of study will provide guidelines for educators, curriculum developers and policy makers in Bangladesh.

Do States Play a Role in Children’s Food Choices?
Lindsey Johnson, Department of Sociology
Mentor: Dr. Margot Gage

The United States government has stressed the importance of healthy food choices in schools by creating public health policies such as the National School Lunch Program and the Fresh Fruit and Vegetable Program. However, different states and their schools have made different approaches to food. This study examines the food choices (i.e. vegetable intake, breakfast eaters, and consumption of soda) being made by high school students in California and Texas. We also account for differences among ethnic groups. Data from the Youth Risk Behavior Surveillances System (YRBSS) were examined. Respondents were boys and girls (aged 15 to 18). Differences by ethnic group were identified, with white children reporting eating more vegetables and consuming less soda as compared to Latino and African American children in both states. After comparing the two states, Texas was found to be the unhealthier of the two states. California
and Texas schools provide different nutritional services in their schools. It seems that California’s school food policies have a more positive impact in children as compared to Texas. Perhaps Texas should consider adopting school food policies similar to California.

Zululand: The Effects of the Zulu and other South African Powers on European Colonization and Institutionalized Racial Discrimination

Dylan Knau, Department of History
Mentor: Dr. Gwinyai P. Muzorewa

The problem that I am tackling are based in the roots of Apartheid. I am arguing that the Zulu tribe’s brutal reign under Shaka and the Mfecane leading to the Anglo-Zulu war were the foundation for Apartheid in South Africa. The presentation will lightly touch on context to show how the Zulu rose to power, but will heavily focus on the Zulu's wartime excursions causing vulnerability in surrounding kingdoms, which allowed the British’s presence to grow. This sets the stage for the beginnings of Institutionalized Racial Discrimination. The Mfecane will be a major focus of the presentation, as it is in my opinion the basis for Apartheid. Many authors have their own opinion on what the Mfecane is and how it influenced South African history, but my definition will be rooted in the weakened governments and fear of total loss from these weakened nations.

I used a variety of sources which consisted of scholarly journals, firsthand accounts of British soldiers, and many South African publications. The South African publishers give a more in-depth look at the societal influences of Shaka, including local songs and terms in the native Nguni language. Hopefully this research adds to the historiography by proving that the effect of Shaka was greater than being famous, but a propellant for state-wide racial superiority.

Sufferings of the Soldiers during the American Civil War

Narciso Martinez, Department of History
Mentor: Dr. Gwinyai P. Muzorewa

The topic of this research will focus on the soldiers who fought in the American Civil War, during and after the war has ending. Each source discusses specific subjects such as statistics, coping mechanisms, and the treatment of soldiers, during and after the war. The information gathered will be generalized for a person to understand the horrendous situations the soldiers were in. The purpose of this research paper is to remind the people the struggles and difficulties the soldiers fought throughout the war.

To Vape or Not to Vape?

Kaitlyn Medley, Department of Sociology
Mentor: Dr. Margot Gage

E-cigarette sales have increased since 2011 and are expected to rise in the coming years. There are 19 different stores in the Beaumont-Orange-Nederland-Vidor area that sell specifically vapor products, not including the larger stores such as Walmart or any of the countless online stores that also carry them. This study will explore the prevalence of e-cigarette use in adolescents, while also examining points of purchase.
Youth Risk Behavior Survey data were analyzed on males and females aged 14-17. We explored place of purchase and e-cigarettes use over a two-year period: 2015 to 2017. E-cigarette use decreased slightly from 44.9% to 42.2%. Data shows that males overall use vapor products more than females: 44.9% compared to 39.7% in 2017. It also shows that seniors in high school (48.6%) smoke more than any other grade (9th- 32.7%, 10th- 41.0%, 11th- 48.0%) with use increasing with age. Younger students seem to have a different purchasing behavior as compared to older students.

E-cigarette use in teens appear to be declining slightly. Perhaps this is in part due to the increase of new anti-marketing toward e-cigarette. Although fewer younger adolescents purchase e-cigarettes in stores, some youth are still being sold these products in stores. Signaling that local stores need to better screen for underage buyers.

**Does Physical Education Affect Student Performance?**
*Bianca Moore, Department of Sociology*
*Mentor: Dr. Margot Gage*

Texas requires that schools provide their students with physical education classes. This study will explore the relationship between physical education and student performance. Data were collected from the 2015-2017 Youth Risk Behavior Surveillance System (YRBSS) survey from 14,151 boys and girls ages 13-17. In a descriptive analysis we explore the number of students taking physical activity classes in relationship to their student performance. Although our conclusions are tentative, we observe some evidence that physical education might be related to academic performance.

**Clorinda Matto de Turner and Her Vision for the Woman**
*Rebekah Newell, Department of English and Modern Languages*
*Mentor: Dr. Catalina Castillon*

Clorinda Matto de Turner writes during the 19th century, a time of turmoil and development for Latin America. The Romantic Movement emerges at that time, characterized by the pursuit of freedom both for the country and for the individual. A romantic herself, Matto de Turner shows this new developments by defending women’s rights to be educated. Matto de Turner can be contrasted with Sor Juana Inés de la Cruz (1651-1695), a Mexican writer who joins a convent to devote her life to studying. Two hundred years later, Matto de Turner expresses the same wish for women to achieve education; however, her motivation is to care for her family, rather than herself. By emphasizing women’s education for the purpose of serving one’s family and community, Matto de Turner creates an unselfish and groundbreaking statement for the Peruvian society. Instead of pursuing education to the exclusion of all else, as Sor Juana does, Matto de Turner uses her education for others, encouraging all women to do the same. Therefore, it is a woman’s sensitivity and service that is praiseworthy, not her mere beauty. In her essay titled “Para Ellas,” we can see a glimpse of the vision she has for women; it highlights their focus on virtuous living, which can be accomplished through first having knowledge. One of Matto de Turner’s literary legacies is her emphasis on women’s education in order to fulfill their role as the heart of the family, which is the mainstay of society.
How to Train Your Student: Empowering Faculty with Student Success Strategies

Jade Parbs, Morgan Martin, Ayokunle Oni, and Maria Villa

Department of English and Modern Languages

Mentor: Dr. Amy Smith

Across the nation, many students enroll in college but few graduate in a timely manner. This is such an issue that standard graduation rates of four-year institutions are measured in six-year spans. According to the National Center for Educational Statistics, in 2010 only 35.5% of all college students graduated within four years. (2017) At Lamar University, the rate at which students graduate in four years is about 11%. (Craig Escamilla, Executive Director of Retention and Student Success, Lamar University) Many factors contribute to students failing to complete college successfully. In our research, we seek to educate and empower Lamar faculty to address the crisis in higher education through achievable, evidence-based strategies for supporting student success. We focus on the disconnect between faculty and students caused by a lack of awareness of students’ experiences, backgrounds, and struggles. Misunderstanding students can lead to ways of interacting with students and teaching classes that unintentionally discourage student success, even when students might otherwise be capable of succeeding. Our research team is creating a print resource for distribution by CTLE to faculty members at Lamar that will inform them about the national and local crisis in higher education, realities of student lives that lead to this crisis, and research-based strategies that faculty can incorporate into their teaching and interactions with students. Our goal is to raise awareness in faculty members and equip them with the tools to help students and Lamar University succeed.

Mental Health and Socioeconomic Status in Malawi and the Netherlands

Cody Riley, Department of Sociology

Mentor: Dr. Margot Gage

This research examines how mental health in the Netherlands and Malawi are affected by socioeconomic factors. We will use the World Health Survey (WHS) to compare the number of people in each survey that have depression while accounting for socioeconomic factors. It is expected that people in low-income countries like Malawi will report fewer mental health problems as compared to people in high-income countries like the Netherlands.

Improving Non-Profit Strategic Planning

Hannah Rumsey, College of Business

Mentor: Dr. Henry Venta

As a member of a research team composed of Dr. Enrique Venta, Prof. Craig Escamilla, graduate student Joshua Gibbs, and former student Derek Slaton, research has been conducted on the relationship between Not-for-Profit organizations strategic planning and their success or lack thereof. Organizations that conduct strategic planning are more specifically outlined in the survey as having 'list of values', acknowledging that they have a strategic plan, and possessing a "nearly complete" identification of key issues. The survey was sent to many non-profit organizations in Southeast Texas and 34 responses were received. Preliminary results show that organizations that possessed these quality were more successful than Not-for-Profit organizations without a strategic plan, even though they claimed to be 'more equipped for the future'. The results suggest that Not-for-Profits that do not have a strategic plan unrealistically base
efficient performance on “not knowing what they do not know”. Furthermore, the research suggests that organizations with a strategic plan are more forward thinking, more aware of the extent of work that must be done to fulfill their mission statement, and more likely be more aware of their own challenges.

A Comparative Analysis on LGBTQ+ Rights in Latin-America
Andrea Vanessa Sierra, Department of English and Modern Languages
Mentor: Dr. Jaime Retamales

Even in the light of an LGBTQ+ avant-garde and progressive mind set of today, Mexico, has fallen behind in providing inclusive rights that can accommodate this community nationwide. On the contrary, countries such as Colombia and Uruguay have approved inclusive rights for the LGBTQ+. This research will compare the differences and similarities that have aided or harmed, the placement of equal rights in these Latin-American Countries.

Your Health is in Your Hands: Destigmatizing Stress in LU Students
Abigail Smith, Caleb Garza and Ethan Thames
Department of English and Modern Languages
Mentor: Dr. Amy Smith

Despite the ubiquity of stress among American college students, there is still a stigma that prevents students from seeking assistance when they experience it. This stigma puts students’ mental, physical and academic well-being at risk, which contributes to the retention crisis in higher education. After gaining an understanding of stress among college students by reading broadly in the scientific literature, our research team is creating an awareness campaign for Lamar University students. Since students experiencing symptoms of stress often feel isolated and helpless, our campaign seeks to increase awareness and decrease stigma surrounding stress, the risk of developing unhealthy coping mechanisms, and evidence-based techniques to manage stress. We are taking a multi-method approach by creating an integrated awareness campaign with posters about various aspect of the effects of stress that link to online educational resources that we are creating based on our research. These resources will cover coping strategies, including elements of resiliency training; local resources and the legal rights of students seeking help; the prevalence of stress; the risks of not managing stress; and tips on how to ask for help. We hope that our third way of raising awareness about stress on campus will be a presentation at the HASBSEB conference, where we will discuss the definition of stress, its prevalence on college campuses, symptoms, the impact of stress on mental and academic health, the prevalence and impact of negative coping mechanisms, and our poster campaign.

Marijuana Use and Bullying in Schools
Je’Keira Spivey , Department of Sociology
Mentor: Dr. Margot Gage

Recently the US has seen an increase in states that have legalized marijuana. Little research has been allotted to marijuana use and bullying behavior in high school. This study will explore the relationship between marijuana, fighting and bullying behavior in adolescent males. Using the Youth Risk Behavior Surveillance System we examined marijuana use, fighting and bullying behavior in black and white males 267. Results showed that white males in high school used marijuana at a higher rate as compared to black
males. Youth involved in bullying were more likely to use marijuana than students who were not bullied. Preliminary findings suggest that there is a relationship between marijuana use and bullying behavior.

Irish-Catholic Discrimination in 19th Century America  
*Melyna Stinson, Department of History*  
*Mentor: Dr. Gwinyai P. Muzorewa*

During the 19th century, the Irish-American community experienced discrimination as they held on to their culture despite immigrating to the United States. The discrimination of Irish immigrants stemmed chiefly from the anti-Catholic views held by mainstream 19th century America. Additionally, the increase of immigrants flooded the job market with unskilled labor, leading to less job availability for Native American citizens to occupy. Propaganda and Anti-Immigrant political groups, such as the Know Nothing party, only fueled the American hatred for the Irish people. The exploration of the discrimination of the Irish during 19th century America can help further the knowledge of Irish-American history as well as develop an appreciation for the Irish-American community and their resilience. Through to utilization of peer reviewed secondary and primary sources found on online databases and through literary works found in the library, a deeper look at the discrimination of Irish immigrants during the nineteenth century can be taken by exploring the migration of the Irish people into America, discussing the discrimination, and discussing the advancements of Irish-American society post nineteenth century. Therefore, this work will explore how the Irish population grew during the 19th Century and the different factors contributing to the Irish-Catholic discrimination.

Comparison of the Feminist Themes in Sor Juana’s *Hombres Necios* and *Respuesta a Sor Filotea*  
*Maxwell Taylor, Department of English and Modern Languages*  
*Mentor: Dr. Catalina Castillón*

Having been born a female in Mexico during the Spanish Colonial era, Sor Juana Inés de la Cruz was subject to discriminations that were prevalent in the 17th century. This influenced her body of work as an author, and the decisions she made in her life. She chose the path of the convent to be able to educate herself in the only setting deemed appropriate for single women by 17th century society. Sor Juana’s writings are best known for defending women’s rights to educate themselves, as well as for her critique of society’s maltreatment of the woman. In both *Hombres Necios*, and *Respuesta a Sor Filotea*, she defends women. However, they differ in the rhetoric used. A comparative analysis will be presented of the feminist themes in both works.

The death of Moctezuma in Bernal Díaz del Castillo’s *Historia Verdadera*  
*Emily Trahan, Department of English and Modern Languages*  
*Mentor: Dr. Catalina Castillón*

In his work *Historia verdadera de la conquista de la Nueva España*, Bernal Díaz del Castillo (c. 1496-1584) validates his accounts because he was a soldier in the army of Hernán Cortés. Díaz del Castillo wrote about his participation in the Conquest of Mexico many years later, because he wanted to refute what other writers, such as Francisco López de Gómara, had said. As a common man and soldier, Díaz del Castillo opposes the writings of those who seem to give all the credit for the victories to Hernán Cortés. A participant and a witness in the conquest of Mexico, Díaz del Castillo wanted to make public his own views, his own “historia verdadera” or true story. An important event that led the Spaniards to victory over the
Aztecs was the defeat of Moctezuma in Tenochtitlan (1520). The Aztec ruler died during the battle, and there are different versions on who killed the great leader. When Díaz del Castillo describes the scene of Moctezuma’s death, he says that Moctezuma was killed by his own people with rocks to the head. The soldier also describes how Hernán Cortés and the Spaniards cried and lamented the Aztec emperor’s death, while praising him as a ruler and warrior. He wrote to describe his leader in a way that was relatable and human. After a review of the life and work of Bernal Díaz del Castillo, this literary analysis will review the different perspectives of scholars regarding this event and its depiction.

Rip, Roar, and Roll through the 1900s
Taylor Tucker, Department of History
Mentor: Dr. Mark Mengerink

Rip, Roar, and Roll through the 1900s, through theme parks and amusement parks. I have researched two important parks that are different but had successful businessmen who helped push their parks into success. Coney Island was a very popular amusement park in New York and with the help of George C. Tilyou and helped push Coney Island into the future. Disneyland was built in 1955, and it is the number one leader in theme parks today. But how did Disneyland impact the history of America? I will investigate the impact of Walt Disneyland. This topic is important because we as Americans are still enjoying these parks today. Both parks have started a new way for families to enjoy their leisure time in the past and present. We will take a look into how Disney created the ideal American Utopia. Come to take a look into the world of the 1950s, and enjoy the smells of Disneyland and Coney Island. Theme parks like Disneyland and Amusement parks like Coney Island shaped society in the 1950’s by creating a new way of entertainment and created new ideas for future America.

Pre-Service Teachers’ Awareness & Attitude towards Environmental Education
Shanetta Williams, Department of Teacher Education
Mentor: Dr. Mamta Singh

The present study assessed pre-service teachers’ awareness and attitude towards environmental education. The study used a valid 15-questions survey instrument, Explore Learning Water Pollution Activity (ELWPA), and Environmental Word Association Test (EWAT). The survey results indicated that 96% of student participants believed that environmental education should be started at elementary-school level and that people are damaging environmental more than any other living things. The ELWPA and EWAT results indicated that student participants gained the better understanding of environment and pollution and its impact on human and society. Additionally, these activities allowed pre-service teachers to explore environmental education concepts which they can utilize in their classroom instruction.
1. **Alcohol use and Sexual Behavior in Adolescent Males in Texas**  
*Kwanita Adair, Department of Sociology*  
*Mentor: Dr. Margot Gage*

The number of teens in the U.S. who have had sex has decreased since the 1980’s. In this study we examine the relationship between early alcohol use and subsequent sexual risk behaviors among adolescents. Youth Risk Behavior Surveillance System data were analyzed on 216 males in Texas aged 14-17 for the years 2001 and 2017. Data showed a decrease in alcohol usage, before sex, as well as sexual intercourse alone. The percent of adolescent males in Texas who drank alcohol before having sex went from 31% in 2001 to 20% in 2017. The number of adolescent males in Texas who had ever drank alcohol went from 49% in 2001 to 25% in 2017. Findings seem to indicate that current sexual education practices in schools might be contributing to lowering drinking and sexual intercourse rates in adolescents.

2. **Knowledge, Use, and Barriers on On-Campus Hearing Services and Accommodations for College Students**  
*Kimberly Boase, Department of Speech and Hearing Sciences*  
*Mentors: Dr. Heather Reading and Dr. Ashley Dockens*

Even mild hearing loss (HL) can cause psychological, social, cognitive, and educational quality and achievement deficits. Since no known research exists regarding accessibility, use, and knowledge of on-campus services for HL in higher education settings, fifty-seven Southeast Texas university students were surveyed to investigate through online and social media outlets. Depth of knowledge of the use of disability services, types of services being used, and if services used have been adequate for success, and impressions about HL was queried. The participants were split into three groups: students with diagnosed HL, self-reported HL, and normal hearing. While all students in the diagnosed HL group reported using services, knowledge of services remained low in all three groups. In addition, the majority of students in all three groups felt like there was a stigma about HL. 66.7% of the diagnosed HL group had experienced prejudice from other students because of their HL. Results and qualitative student reports will be submitted to various on-campus disability resource centers to further improve knowledge of disability services and increase positive impressions about services and hearing loss.

3. **The Road to Plessy v. Ferguson**  
*Natalia Calderon, Department of History*  
*Mentor: Dr. Gwinyai P. Muzorewa*

On May 18, 1896, the United States Supreme Court ruled that a Louisiana law, which required railways to provide separate cars for African Americans and whites, was constitutional. The Supreme Court stated that
racial segregation laws for public facilities were constitutional, as long as the facilities were equal, also known as “separate but equal.” This ruling came to be known as Plessy v. Ferguson. The Supreme Court’s decision had a significant impact on the lives of African Americans for years to come. In this paper, a few of the reviews that were used came from The Journal of Negro History and The Journal of American History. Therefore, this paper will be about what led to the ruling of Plessy v. Ferguson by examining how it started with Abraham Lincoln’s idea for Reconstruction, which will include the plans for Reconstruction after the end of the Civil War, the amendments that were passed as part of the Reconstruction era, as well as the end of the Reconstruction. This paper will explain what black codes were at the time, the Jim Crow laws, as well as the economy and types of jobs that African Americans held during that time period. This paper will end with the Plessy v. Ferguson ruling by explaining what the Louisiana law was and how it came to be, who was Homer Plessy and will thoroughly explain the Supreme Court ruling and the supreme court’s reason behind the decision.

4. Texas History: Republic to Annexation

_Iyanna Henderson, Department of History
Mentor: Dr. Gwinyai P. Muzorewa_

In this paper key influencers to Texas’ Independence and its annexation to the U.S. will be discussed. This will include the politics over the topic of Texas annexation during presidential administrations from 1837 to 1845. Significant events, such as battles and treaties from the Texas Revolution and Mexican-American, will be gone over. There will be information from primary sources, such as journals, that account for what was taking place during this time. Also, this study will rely on secondary sources from peer reviewed articles that discuss the events and their significance to Texas’ history. Therefore, the work will encompass the many affairs Texas went through from its state of being a Republic to an actual state of the U.S.

5. Use of Virtual Reality for Vestibular Disorders Rehabilitation

_Sierra Hunnicutt, Department of Speech and Hearing
Mentor: Dr. Lilian Felipe_

Virtual reality is a computer-generated environment, used to let people explore other worldly scenarios. Inside a virtual reality system, a person may be completing a task, or experiencing a certain situation, such as riding a roller coaster, or baking a cake. Virtual reality allows people to discover and try new things without causing real life mistakes, or potential harm to themselves and others, depending on what the simulation is for. To review the existing literature on vestibular rehabilitation clinical applications of virtual reality tools for vestibular disorders.

Virtual reality can be beneficial for patients with vestibular disorders and used as a system to help them to work on their perception and cognition processing. This can be done through the tracking systems, within the virtual reality, that tracks the head, body, and eye movements to correlate and interact with the “environment” that they are in. In virtual reality, the environment shifts, as the user in it shifts positions, so that the area around them may move along with them. This could possibly make them more stable, even if they are moving around, if their range is shortened and they are only able to focus on a tiny setting, and not looking around at everything. Conclusion: Virtual Reality can help in vestibular disorders. The motor skills can be learned in a virtual environment and later applied into the real world. The virtual settings can provide controlled and/or augmented feedback on motor performance.

Bryan A. Landrum, Department of Psychology  
Co-authors: Eli J. Barclay and Ken M. Carona  
Mentor: Raymond Doe

A decision of whistleblowing presents a conundrum – on one side, the decision is heralded as the ultimate justice and on the other hand it is perceived as the ultimate betrayal. The opportunity cost of fairness or loyalty occurs within a personal, situational and cultural contexts. When and why would an employee decide to report an unethical behavior? This 2x3 factorial ANOVA design adopts the theory of planned behavior to manipulate these normative beliefs in addition to the motivations by measuring the intention of whistleblowing in an organizational context. Using a sample of 162 participants, the results showed a significant interaction between the normative beliefs and the consequences as well as a main effect of normative beliefs. In addition, there was a moderate correlation between attitudes and intent to report unethical behavior. The implications of normative beliefs and the motivations underlying these whistleblowing decisions were discussed.

7. Work-related Musculoskeletal Disorders and Psychological Factors in Nurses: A Conceptual Model

William Perry, Dishman School of Nursing  
Mentor: Dr. Cynthia M. Pipkins

Research estimates nurses have one of the highest rates of work-related musculoskeletal disorders (WMSD) of any occupation (Hanks, 2007; Trinkoff, Brady, & Nielson, 2003). Establishing a clear visualization and conceptualization of the musculoskeletal and psychological challenges of work-related injuries can assist in creating interventions to sustain and improve the nurse’s quality of life. This creative project discovered the WMSD and psychological factors related to nurses. Through a literature review the question answered: What is the holistic (physical and psychological) conceptual (pictorial) image of a WSMD nurse? The outcome of this creative project developed a conceptual model of a WSMD nurse and the psychological factors found in peer-reviewed evidence-based research studies (Literature Review).

This creative project included: (1) a completed literature search in PsychINFO, PubMed, CINHAL, and Medline, using keywords regarding “work-related musculoskeletal disorders”, “work-related musculoskeletal injury”, “psychological factors”, “coping strategies”, “nurses”, and “licensed nurses”, (2) a matrix table for the studies identified and analyzed, (3) a conceptual model created from the synthesized evidence-based literature findings, and (4) through the analysis of the literature a gap was found allowing for the creation of a research question for further study.
2018-19 OUR Grant Award Recipients

1
Nathan Abshire | Chemical Engineering | Dr. Christopher Martin
Hyperconjugation-Assisted Ring Opening of Substituted Acylcyclopropanones

2
Kelli Breaux | Social Work | Ms. Bonnie Loiodice
Embracing and coming out as LGTBQ

3
Kimberly Brooks | Nursing | Dr. Cynthia Pipkins, Mr. J. T. Seaman, MSN, & Ms. Rebekah Seymour, MSN
Expressive Art and Stress Levels in Nursing Students: A Mixed Methods Study

4
Marina Cernik | Chemical Engineering | Dr. Gino M. Canlas
Scalable, Economical Oxidation of Dglucose to Glucaric Acid using Catalytic or Electrochemical Methods

5
Arthur Davis | Psychology | Dr. Jeremy Shelton
Shoot, Don’t Shoot: An Attempt to Investigate Bias through Shifting Group Boundaries Behavioral Sciences

6
Madison Demel | Chemical Engineering | Dr. Christopher Martin
Computational Study of the Effect of Substituents on the [2+2] Cycloaddition of Alkylated 3(2H)-furanones

7
Caitlin Eakin | Speech & Hearing Sciences | Dr. Nandhu Radhakrishnan
Voice Characteristics during face-to-face vs Telephone Conversation

8
Amanda Essoh | Chemistry & Bio-Chemistry | Dr. Maxim Soukhodolets
Mutational Analysis of the Bacterial Protein Hfq

9
Alexis Granados | Finance & Economics | Dr. Gevorg Sargsyan
Effect of Statuary and Regulatory Protection in Investment Decision in Argentina, Chile, Mexico and Venezuela
10
Julianna Haidusek | History | Dr. Rebecca Boone
History and Legacy of Herbicide Use during the US-Vietnam War

11
Omar Hamza & Alexus Locke | Chemistry & Mechanical Engineering | Dr. Ian Lian & Dr. Ping He
Development of Novel Techniques for Tissue Engineering Applications

12
Hope Hardin | Speech & Hearing Sciences | Dr. Nandhu Radhakrishnan
Vocal Fry: Extent of Pathology and Tolerance among Listeners

13
Lillian Hill | English | Dr. Jerry Bradley
Biased Judges in Southeast Texas Courtrooms: Absolute Truths and Possibilities for the Future

14
Alek Hutson | Physics | Dr. Philip Cole
The Search for Baryon Resonances – the Excited State of Protons

15
Emily Ingram | Chemistry & Chemical Engineering | Dr. Ozge Gunaydin-Sen
Studying the Effects of Catalysts on Ammonia Borane-Polyethylene Oxide Composites for Hydrogen Fuel Cells

16
Cade Johnson | Biology | Dr. Ian Lian
Culture of Acute Myeloid Leukemia: Effects of Varying Cell Culture Conditions in SKNO-1 Acute Myeloid Leukemia (AML) Cells

17
Baron Kane | Deaf Studies & Deaf Education | Dr. Laura Maddux
Student Career Preparation: Interactions with the Deaf Community

18
Zoe Lovett | Social Work | Dr. Ginger Gummelt & Ms. Lori Wright
The Risk-Need-Responsivity Model and its Effectiveness with At-Risk Youth

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24
Tyler Martin | Mechanical Engineering | Dr. Keivan Davami
Structural and Mechanical Characterization of High Entropy Alloy Coatings Fabricated by Reactive RF Magnetron Sputtering

Vishal Mundodi | TALH (Liberal Arts) | Dr. Jasdeep Pannu
Does diversity on college campus influence student success and retention among college students?

Nguyen Nguyen | Mechanical Engineering | Dr. Keivan Davami
Fabrication and Characterization of Metal-Coated Mechanical Metamaterials

Shadye Nolan-Vaughns | Social Work | Dr. Ginger Gummelt
How Children Perceive Violence

Emily Ochoa | Chemical Engineering | Dr. Gino M. Canlas
N-Heterocyclic Carbene Complexes of Transition Metals for Organic Transformations

Zhen Wei Ooi | Chemical Engineering | Dr. Clayton Jeffryes
Preparation & characterization of electrospun algal biopolymer and synthetic polymer blend nanofibers

Burgandy Perti | Civil Engineering | Dr. Thinesh Selvaratnam
Energy and Nutrient Recovery from Rice husks and Bagasse

Daniel Quispe | Mechanical Engineering | Dr. Cristian Bahrim
Effects of Weather Conditions on the Efficiency of Solar Cells

Odalys Rentas | Hospitality Administration | Dr. Eunjin Kwon
Perceptions of Caribbean Cuisine in Texas
Chae Rohrs | Mechanical Engineering | Dr. Ping He
A Finite Volume Method for Modeling the Cassie-Wenzel Transition of a Drop-let on a Textured Substrate

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Stacy Towers | Mechanical Engineering | Dr. Chun-Wei Yao
Superhydrophobic and Wear-Resistant Coating on Aluminum Substrates Using Nanoparticles

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Paityn Warwick | Biology | Dr. Maryam Vasefi
Associations between periodontal pathogens and Alzheimer’s disease

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Quintin Williams | Mechanical Engineering | Dr. Keivan Davami
Mechanical Characterization of Graphene-Hexagonal Boron Nitride Nanocomposites