



TEXAS A&M INTERNATIONAL UNIVERSITY



LAMAR BRUNI VERGARA

2018 ACADEMIC CONFERENCE

TAMIU graduate and undergraduate students are invited to present research projects to a TAMIU audience on:

APRIL 25 - 26, 2018

Continue discovering TAMIU research at the upcoming:
First Year Undergraduate Research Symposium

Tuesday, May 1

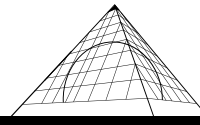
Student Center Ballroom

For more information, call 326.2789

For more information,
please email: lbvconference@tamiu.edu

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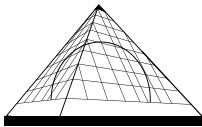
Thank you

In an effort to become a premier international research and teaching institution, **Texas A&M International University (TAMIU)** provides a variety of opportunities to undergraduate and graduate students to get involved in research, scholarly and creative work, whether classroom-based or through student-faculty collaborative projects. This has allowed our students to gain an increased interest and knowledge in academic research and scholarship. As a result, many students have published their work in academic journals and have presented at regional, national and international professional conferences, including The Texas A&M University System Pathways Student Research Symposium. All of these experiences are preparing our students to become the next generation of scholars and leaders.

For the past 9 years, the Lamar Bruni Vergara Academic Conference has allowed students to present their research to a **TAMIU** audience and to be recognized for their hard work and dedication. In addition, this event gives them the impetus to improve their critical thinking and presentation skills in a professional setting.

For the next two days, graduate and undergraduate students from all disciplines will present their scholarly work through the entire oral and performance presentations. This interdisciplinary event involves all of the **TAMIU** community and encourages students, faculty and staff to learn about the topics that are being studied on campus.

For this and many other reasons, we would like to recognize and thank the Lamar Bruni Vergara Trustees, J.C. Martin III and James H. Pearl, for funding this research conference. The University appreciates their continuous support and partnership in fostering the intellectual and professional development of our student researchers.



Welcome

Dear Lamar Bruni Vergara Student Research Conference Participants,

I would like to welcome each of you to the annual Lamar Bruni Vergara Academic Conference. This is an exciting time for all of us as we celebrate the research and scholarly/creative accomplishments of our undergraduate and graduate students and their faculty mentors. This Conference is an outstanding example of **TAMIU's** continued commitment to developing rich educational and research opportunities for students and faculty as we continue our journey to become a premier international teaching/research institution.

Known for their intellectual curiosity and academic acumen, **TAMIU** students have excelled and distinguishing themselves as being among some of the strongest academically prepared students in The Texas A&M University System. For the next two days, you will have the unique opportunity to see and hear students present the fruits of long hours of labor in the laboratory, studio, library, classroom and the community. I know you will find that the work of these young men and women is intellectually stimulating and academically sound and adds new knowledge and perspectives to their respective disciplines.

It is my sincere wish that each of you enjoy the next two days, but more importantly that you grow intellectually. It is also our hope that the Lamar Bruni Vergara Academic Conference will become one of The Texas A&M University System's most widely recognized and respected student research conferences.

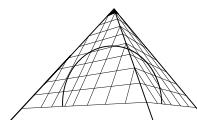
Sincerely,

A handwritten signature in black ink that reads "Thomas R. Mitchell". The signature is written in a cursive, flowing style.

Thomas R. Mitchell, Ph.D.

Provost and Vice President for Academic Affairs

Special Thanks



for their contributions to the Conference:

Office of Institutional Advancement

Office of Research and Sponsored Projects

Dr. John Kilburn, Zoila Franco-Hinojosa, Anne Frey, Celeste Kidd, Marina Hinojosa, and Daniela Rodríguez

Dr. Kenneth Tobin

Associate Conference Coordinator

Office of Public Relations, Marketing and Information Services

Ana Clamont

Office of Community Relations and Special Events

Kristina Valenciano, Enrique Botello and Jesse González

Office of Purchasing and Support Services

Cesar Caballero and Victor Díaz

QEP – Act on Ideas

Dr. Kevin Lindberg and Nadia de la Garza

Center for Earth and Environmental Science

Dr. Ken Tobin, Dr. Marvin Bennett and Arturo Diaz

Office of University College

Dr. Catheryn Weitman and Veronica Juarez

Title V – Building Scholars

Dr. Rohitha Goonatilake and Elaine Almanza

Title V – FOSS

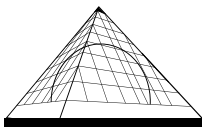
José Luis Moreno

TRiO Student Support Services

Leticia Valle and Student Volunteers

Aramark Catering

Conference Judges and Mentors



Wednesday – April 25, 2018

Registration

12:00 P.M. – 6:00 P.M. Registration Senator Judith Zaffirini Student Success Center 101

Poster Sessions

1:30 P.M. – 2:00 P.M. Poster Session #1 (Set-Up) Senator Judith Zaffirini Student Success Center 101

2:00 P.M. – 3:30 P.M. Poster Session #1 Senator Judith Zaffirini Student Success Center 101

3:30 P.M. – 4:00 P.M. Poster Session #1 (Take-Down) Senator Judith Zaffirini Student Success Center 101

5:00 P.M. – 5:30 P.M. Poster Session #2 (Set-Up) Senator Judith Zaffirini Student Success Center 101

5:30 P.M. – 7:00 P.M. Poster Session #2 Senator Judith Zaffirini Student Success Center 101

7:00 P.M. – 7:30 P.M. Poster Session #2 (Take-Down) Senator Judith Zaffirini Student Success Center 101

Refreshments

3:00 P.M. Senator Judith Zaffirini Student Success Center 101

6:00 P.M. Senator Judith Zaffirini Student Success Center 101

Oral Sessions

1:00 P.M. – 2:30 P.M. Oral Session #1 Student Center 120, 225, 230, 231

2:30 P.M. – 4:00 P.M. Oral Session #2 Student Center 225, 230, 231

4:00 P.M. – 5:30 P.M. Oral Session #3 Student Center 120, 225, 230

5:30 P.M. – 7:00 P.M. Oral Session #4 Student Center 225, 230, 231

Thursday - April 26, 2018

Registration

9:00 A.M. – 1:00 P.M. Registration Senator Judith Zaffirini Student Success Center 101

Poster Sessions

8:30 A.M. – 9:00 A.M. Poster Session #3 (Set-Up) Senator Judith Zaffirini Student Success Center 101

9:00 A.M. – 10:30 A.M. Poster Session #3 Senator Judith Zaffirini Student Success Center 101

10:30 A.M. – 11:00 A.M. Poster Session #3 (Take-Down) Senator Judith Zaffirini Student Success Center 101

12:00 P.M. – 12:30 P.M. Poster Session #4 (Set-Up) Senator Judith Zaffirini Student Success Center 101

12:30 P.M. – 2:00 P.M. Poster Session #4 Senator Judith Zaffirini Student Success Center 101

2:00 P.M. – 2:30 P.M. Poster Session #4 (Take-Down) Senator Judith Zaffirini Student Success Center 101

Oral Sessions

9:00 A.M. – 10:30 A.M. Oral Session #5 Student Center 230, 231

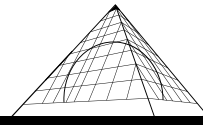
10:30 A.M. – 12:00 P.M. Oral Session #6 Bob Bullock Hall 114, 219
Killam Library 102
Student Center 120, 225, 230, 231
Western Hemispheric Trade Center 126
Senator Judith Zaffirini Student Success Center 120

12:30 P.M. – 2:00 P.M. Oral Session #7 Student Center 120, 225, 230, 231
Western Hemispheric Trade Center 126
Center for the Fine and Performing Arts 123

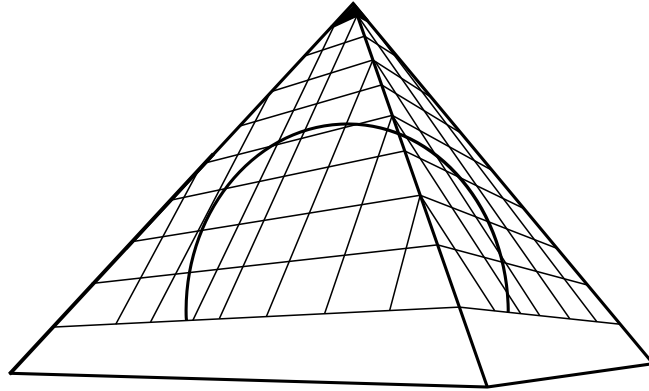
Closing Ceremony – Awards Banquet

6:00 – 8:00 P.M. Student Center Ballroom

Scholar of the Year

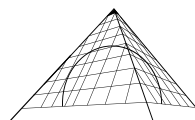


Frances P. Bernat holds both a Juris Doctorate and a Ph.D. in Political Science. A recent recipient of the Washington State Alumni Scholar award and the TAMIU Scholar of the Year, she has also received awards from the State of Arizona, Arizona State University, and professional and community awards for her scholarship, teaching and service. She is the current editor of *Women & Criminal Justice* and publishes scholarship on the intersection of law, criminal justice and policy. She has recent publications on contemporary issues: human trafficking, cyber crime victimization, police and criminal procedure, civil commitments and sexual predators. She is active in several professional organizations including Alpha Phi Sigma, a national criminal justice honor society, the Academy of Criminal Justice Sciences, and the American Society of Criminology.



LBV Academic Conference Presentations

Poster Session 1



Wednesday – April 25, 2018 • 2 – 3:30 p.m. • Senator Judith Zaffirini Student Success Center 101

No.	Presenter	Status	Discipline	Presentation Title
1	Erick Vázquez Victoria Reyes	UG	Biology	Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) Analysis of Lead Bioaccumulation in <i>Chlamydomonas Reinhardtii</i> and the Role of <i>Cia7</i> Gene
2	Armando Guerrero, III	UG	Biology	Clinical Significance of the Pathogenic Bacterium <i>Mycoplasma Hominis</i> and <i>Ureaplasma Urealyticum</i>
3	Lauren Garner	UG	Biology	Evolution and Development of Antibiotic Resistance in <i>Mycoplasma Pneumoniae</i>
4	Elwynn G. Sherman, II	UG	Biology	Preliminary Experiment to Determine the Effect of Giant Reed (<i>Arundo Donax</i>) Leaf Litter Extract on Detritivorous Beetle, <i>Passalus Cornutus</i>
5	Bryant De Jesús	GS	Biology	Analyzing Antibiotic Resistance Mechanisms in the Minimal Pathogen <i>Mycoplasma Pneumoniae</i> : An Effort of Halting the Drug Resistance Crisis
6	Kathia Gloria	UG	Chemistry	We Are What We Eat: An Investigation of the Impact of Cooking on the Organic Composition of Vegetables
7	Cidelia Chávez Jocelyn J. Hernández	UG	Physics	Nuclear Magnetic Resonance Spectroscopy Study: Analysis of Age-linked Variations in Skeletal Muscle Conformation
8	Stephany Valadez Manelick Hernández Rolando Valdez	UG	Physics	Applications of Nuclear Magnetic Resonance in Food Processing
9	Alexandra Pérez	UG	Math	The Best Number of All
10	Courtney Padilla	UG	Nursing	The Correlation Between the Intake of Soda and Obesity Rates in 5 th Grade Hispanic Children
11	Valerie Padilla	UG	Nursing	Correlation Between Confidence in Teaching Nutrition and Factors Associated with Job Satisfaction Among Nurses Working in Dialysis Clinics
12	Mariana Gómez	UG	Nursing	Human Papillomavirus Vaccination re-uptake in the Hispanic Women Population
13	Héctor González	UG	Nursing	Variables that Affect Males' Willingness to Receive HPV Vaccination
14	Sandra Minjares	GS	Counseling Psychology	First Year Latino Students' Mental Health Needs
15	Naomi Cortina Victoria López	GS	Psychology	An Examination of Resilience Among Hispanic High School Students
16	Lupita Pérez-González	GS	Counseling Psychology	Exploring Dating Violence Views and Vulnerabilities Among Latino High School Students
17	Amanda Lewis Ashley Cavazos Daniela Ortiz	GS	Counseling Psychology	Latino College Students' Experience of a Psychoeducational Group Program to Prevent Dating Violence: A Qualitative Inquiry
18	Gabriela Sánchez Mariana Mendiola	GS	Counseling Psychology	Preliminary Outcomes of a Psychoeducational Group Program to Prevent Dating Violence Among Latinos in College

No.	Presenter	Status	Discipline	Presentation Title
19	Carolina Hinojosa	GS	School Counseling	What LSD Does to Your Brain
20	Janice Ochoa	GS	Counseling Psychology	The Influence of Acculturation on Alcohol Use in Hispanic Adolescents
21	Lorena Cestou Alexandra Reyes Sherline Salazar Felicitas Cavazos Analie Costilla	GS	Education	Developing Intercultural Competency While Engaging in International Service-Learning: Teacher Candidates Transcending Cultures at the Border Between Texas and Mexico to the Border Between Haiti and the Dominican Republic
22	Paula Ramírez	GS	Education	The Effects of Sociological Evolution of Sex Trafficking
23	Lizeth De La Peña	GS	Education	Human Trafficking as Sexual Slavery for Women in México
24	Martha Lerma	UG	Pedagogy	Errors in Student Writing as a Positive Learning Tool
25	Alexandra Loredó	UG	Kinesiology	Validity of BMI-based Equations for Estimating Body Fat Percentage in Collegiate Male Soccer Players: A Three-Compartment Model Comparison
26	Sabrina Dudziak	UG	Marketing	Advertising and Integrated Brand Promotion (IBP) Project
27	Víctor Rosales	UG	Art	Achieving Crystalline Growth Formations in Mid-fire Range Glazes

Poster Session #1 Presentation Room Layout

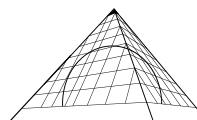
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Poster Session 2



Wednesday – April 25, 2018 • 5:30 – 7 p.m. • Senator Judith Zaffirini Student Success Center 101

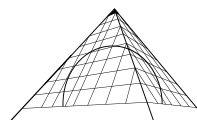
No.	Presenter	Status	Discipline	Presentation Title
28	Jazmine Rivera Janelly Hernández	UG	Education	Personal Service-Learning Experiences at the Laredo Processing Center
29	María José Ezeta Mary Jo Pérez	GS	Education	¡No es No! (No means No!) Stop Sexual Violence in Mexico
30	Analie Costilla	GS	Education	An Ethnogenetic Analysis: Exploitation of Haitian Women and Children Living in the Dominican Republic
31	Palumbo Vanessa	GS	Education	The Need for Play in Early Childhood Classroom
32	Priscilla García	GS	Special Education	Increasing Physical Activity for Individuals with Down Syndrome Through Intervention Package
33	Cheryl Díaz De León	GS	Special Education	Increasing Expressive Ideas, Thoughts, and Emotions, Minus Offensive Language, in a Student with Emotional Behavioral Disorder
34	Yasmine Castañeda Alyssa Martínez Alfredo Torres	UG	Psychology	Sweet Inhibition: Isolation of Response Conflict and Inhibition to Characterize the N2 Event-Related Potential
35	Daisy Ramírez	UG	Psychology	Exploring the Effects of Substance Abuse: Cocaine on the Brain Processes of The Limbic System
36	Keila Garibay-Harris	GS	Counseling Psychology	The Efficacy of Couple's Therapy in Treating Sex Addiction
37	Naomi Cortina	GS	Psychology	An Analysis of Drug Use Among Hispanic Youth Living in Border Towns
38	Jasminne Isquierdo	GS	Psychology	Adolescents' Addiction to Opiates
39	Eve Valdés	GS	Psychology	The effects of Drug and Alcohol Abuse on Women
40	Alejandra Santos	GS	Psychology	The Effects of Drugs on Neural Indices in Drug Addicts vs. Sex Addicts
41	Vanessa García	GS	Psychology	Heroin: the History, Usage, Effect, and Preventive Measures
42	Lashae Rolle	UG	Chemistry	New Oxazole Rifamycin Derivatives for the Treatment of Mycobacterium Abscessus
43	Petronilo Morín	UG	Chemistry	Synthesis of Rifamycin Derivatives for Mycobacterium Abscessus
44	Alexia Serna René Chávez Rodrigo Arraiga Adalberto Flores Jorge Jiménez	UG	Engineering	RL Circuits and Differential Equations

No.	Presenter	Status	Discipline	Presentation Title
45	Kathia Gloria Jessica Mireles	UG	Physics	An Insight to Nuclear Magnetic Resonance
46	Marco Muñoz Israel Rafael Rodríguez	UG	Physics	Assessment of Baboon Cortical Bone Microstructural Change and Comparison with Human Cortical Bone Microstructural Changes by Low-Field NMR
47	Erick Vázquez Karimeh Ortiz	UG	Physics	Nano-Encapsulated (+)- Promethazine, An Innovative Drug Delivery System for Bone Loss Diseases
48	Torres Roberto	GS	Environmental Science	Validation of Root-Zone Soil Moisture Product Using NDVI Data
49	Melissa Bustamante	UG	Environmental Science	The Impact of Climate Change in South Texas
50	Regina Rodríguez	UG	Environmental Science	The Hydrologic Cycle in Texas
51	Aranza Obscura	UG	Astronomy	Planet Habitability
52	Diego Canales	UG	Art	Ceramics: Crackle Glazes Fired at Cone 6-7 Reduction

Poster Session #2 Presentation Room Layout

28	29	30	31	32	33	34	35
36	37	38	39	40	41	42	43
44	45	46	47	48	49	50	51
52							

Poster Session 3



Thursday – April 26, 2018 • 9 – 10:30 a.m. • Senator Judith Zaffirini Student Success Center 101

No.	Presenter	Status	Discipline	Presentation Title
53	Alyson Miller	UG	Biology	Meeting the Challenges of Minorities in Higher Education: A Review of the Underrepresentation of Hispanics in Medical School
54	Vanessa Mireles	UG	Biology	PerR in Streptococcus and Pathogenic Bacteria
55	Karimeh Ortiz Gladys Cantú	UG	Biology	Comparative Genomic Analysis of Mycoplasma Penetrans – Insights Into An Opportunistic Pathogen Frequently Found in HIV-Infected Patients
56	Nicolette Váldez	UG	Biology	Prion Diseases
57	María Hinojosa	GS	Biology	The Adapting Minimal Genome
58	Jorge Pina	UG	Chemistry	Thermochemical Properties of Nitramine and Nitrogen Containing Compounds
59	Javier Romero	UG	Chemistry	Effects of Medical Residue in the Environment
60	David Márquez	UG	Chemistry	Synthesis of Siderophore-Rifamycin Derivative to Treat Antibiotic Resistant Mycobacterium Abscessus
61	Perla De León Christabel Gutiérrez Angelica B. Lozano	UG	Physics	Nuclear Magnetic Resonance
62	Paola Segovia Juan Ramos	UG	Math	Irrationality of e and pi
63	Yzamar Rivera	GS	Counseling Psychology	Two Sides of Suffering: PO Use Disorders
64	Jennifer Chapa	GS	Counseling Psychology	Retail Therapy: A Look at CBD
65	Lupita Pérez-González	GS	Counseling Psychology	Babies Born Addicted
66	Amber Palos Santiago Pérez	UG	Communication Disorders	TAMIU How Noisy Are We and How Do We Perceive Noise?
67	Dixie García Vanessa Vela Caleb Sáenz Sarah Orta	UG	Communication Disorders	Can You See My Voice? Using Sound Spectrograms to Depict Emotion
68	Yared Rodríguez	UG	Communication Disorders	Dialects of English Spoken in Downtown Laredo
69	Cassandra Benavides	UG	Art	Life Drawings

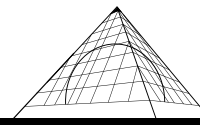
Poster Session #3
Presentation Room Layout

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61	62	63	64	65	66	67	68
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69							
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Poster Session 4



Thursday – April 26, 2018 • 12:30 – 2 p.m. • Senator Judith Zaffirini Student Success Center 101

No.	Presenter	Status	Discipline	Presentation Title
70	Javier García	UG	Biology	Microorganism Resistance to Antibiotics
71	Raul González María Hinojosa	UG	Biology	Mycoplasma Pneumonia
72	Lauren Garner	UG	Biology	Evaluation and Development of Antibiotic Resistance in Mycoplasma pneumoniae
73	Alexandra Ortiz	UG	Biology	Mechanisms of Triclosan-Resistance of Plant Growth-Promoting Rhizobacteria Isolated from Onions
74	Nayeli Rivas Nayeli Rojas	UG	Biology	Does Language Rely on a Dopaminergic System? A Genotype Study
75	Oscar González	GS	Biology	Influence of Inoculation with Plant Growth-Promoting Rhizobacteria to Reduce Triclosan Levels in Onions and Soils
76	Priscilla Carlo	GS	Biology	Phylogenetic Analysis of Triclosan Exposed Onion Rhizobacteria
77	Kathia Gloria	UG	Chemistry	A Breakdown of Modern Medicine
78	Yoana Flores	UG	Chemistry	Metal Chelators as Inhibitors of North American Snake Venom: Addressing a Neglected Problem
79	Adriel Mota Sebastian Meza Cesar Estrada Enrique Pérez	UG	Physics	Nuclear Magnetic Resonance: Imaging of Protein Structures
80	Victoria Esquivel Jackelin Loredó Jason García	UG	Math	Innumeracy in the United States
81	Yared Rodríguez Sophia De Los Santos	UG	Communication Disorders	Make Some Noise Laredo!
82	Sherline Salazar Felicitas Cavazos Alexandra Reyes Analie Costilla Janelly Hernández Jazmine Rivera Lorena Cestou	UG	Education	Becoming Interculturally Competent and Globally Connected through International Service-Learning with “Batey Girls” in the Dominican Republic
83	Dallas López	GS	Special Education	Cycles!
84	Dianira Hernández	GS	Psychology	Police Officers Job Demands, Coping, Stress and Alcohol Use
85	Alejandro Rocha	GS	Counseling Psychology	The Use of Anabolic Steroids and its Side Effects

No.	Presenter	Status	Discipline	Presentation Title
86	Gabriela Sánchez	GS	Counseling Psychology	Young Adults and Gambling
87	Leopoldo Villarreal	GS	Psychology	The Attribution of Biopsychosocial Views of Hyper-Sexual Disorder (Sex Addiction) and Its Treatment
88	Sandra Minjares	GS	Counseling Psychology	Geriatric Substance Use and the Implications in Counseling
89	Mariana Mendiola	GS	Psychology	The Impact of Attachment Styles and Emotional Regulation in Sexual Addiction
90	Maribel Medrano	GS	Psychology	Substance Use Among Individuals with Disabilities

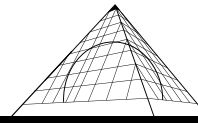
Poster Session #4 Presentation Room Layout

70	71	72	73	74	75	76	77
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86	87	88	89	90			
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Oral Session 1



Wednesday – April 25, 2018 • 1 – 2:30 p.m.

Student Center room 120

No.	Presenter	Status	Discipline	Presentation Title
91	Edwin Barrera Luis Carrasco	UG	Engineering	Simulation of Adaptive Traffic Control Algorithms
92	Umberto Fasci	UG	Biology	Genetic Interactions Between Tau and Kinesin Motor Proteins In Drosophila Eye
93	Daniel Molina	UG	Biology	Drug Dissemination

Student Center room 225

No.	Presenter	Status	Discipline	Presentation Title
94	Andrea Gloria Maribel Gómez Lauren Garner Christine Sánchez Marion De León	UG	Physics	Solid-State NMR for Bacterial Biofilms
95	Miguel Quiroz Brandon Núñez Jaime Hereda David Gutiérrez David Márquez	UG	Math	Free Falling
96	Nicholas Treviño Maclovio Gómez Christian Buruato José Martínez Jesús Villegas	UG	Math	Applications of Differential Equations in Fluid Mechanics

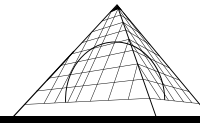
Student Center room 230

No.	Presenter	Status	Discipline	Presentation Title
97	Sabina Cárdenas	UG	Creative Writing	Infinity
98	Janellie Berlanga	UG	Creative Writing	Lose Me Again
99	Martha Espinoza	UG	Philosophy	Challenging the Law of Legal Entry

Student Center room 231

No.	Presenter	Status	Discipline	Presentation Title
100	Cynthia Urteaga	UG	Political Science	Political Polarization Due To Media Bias
101	Max Barrientos	UG	Finance	An Understanding of the Efficient Market Hypothesis and Its Anomalies
102	Melinda Lee Downie	GS	Communications	Silent Items on Store Shelves: An Exploratory Research on Sexual Health Products in Laredo, Texas

Oral Session 2



Wednesday – April 25, 2018 • 2:30 P.M. – 4 p.m.

Student Center room 231

No.	Presenter	Status	Discipline	Presentation Title
103	Yesenia Escobedo Alex Alemán Frank Alvarado, Salvador Hernández José Hernández Rodolfo Treviño Juan Martínez Gerardo Garza José Hernández	UG	Engineering	DustyQUAD 3.0
104	José Segura Angelica González Cristina Velázquez Alejandra Díaz Uriel Reyes Benjamín Escoto	UG	Engineering	DustyTRON
105	Rolando Martínez Isaac Segura Cristina Velázquez Rodolfo Treviño Edwin Barrera	UG	Engineering	Human Factors: Driving Simulator
106	Yesenia Escobedo	UG	Engineering	The Profit
107	Rolando Villanueva José Jara, Jr.	UG	Engineering	The Importance of Optimizing the Advising Process
108	Nahin Aldana Brenda Arroyo Carlos Ruiz Nancy Zuñiga Antonio Raul Lozano Jesús Santos Ingrid Lara Brenda Morales Luis Carrasco	UG	Engineering	DustyMOTOR 2.0, Formula SAE
109	Raul Bernal Luis Reyna Alexis Cantú Esteban Herrera Tiffany Estevis Carlos Ruiz Rolando Martínez	UG	Engineering	DustySWARM 3.0
110	Tiffany Estevis Carlos Ruiz Alejandra Díaz Raul Bernal Edwin Barrera Luis Carrasco	UG	Engineering	Robotic Safety

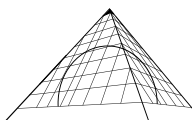
Student Center room 225

No.	Presenter	Status	Discipline	Presentation Title
111	Juan Bustamante Raul Dozal Jaqueline Vega Mario Fuentes	UG	Engineering	RL Circuits: How It Works
112	Jisel Sánchez	UG	Math	A Complex Project
113	Miguel Cabrera Thomas Cázares Laura Murillo	UG	Math	Newton's Law of Cooling
114	Alexis Ruiz Ana Aguina Selena Rodríguez Luz Mota Andrea Gloria	UG	Physics	Ultra Fast Magic Angle Spinning Solid – State NMR Spectroscopy of Intact Bone
115	Alicia Segovia	UG	Biology	Analysis of the Mechanisms of Fluoroquinolone Resistance in Mycoplasma Pneumoniae
116	Yuridia Rodríguez	GS	Biology	Elucidating Metabolic Adaptations of Morganella Morganii with Possible Links to Virulence
117	Douglas Holland	GS	Biology	Evaluation of Antibacterial Activity of Vangueria Volkensii Extracts
118	Maribel Gómez	UG	Psychology	Understanding Postpartum Depression

Student Center room 230

No.	Presenter	Status	Discipline	Presentation Title
115	Alicia Segovia	UG	Biology	Analysis of the Mechanisms of Fluoroquinolone Resistance in Mycoplasma Pneumonia
116	Yuridia Rodríguez	GS	Biology	Elucidating Metabolic Adaptations of Morganella Morganii with Possible Links to Virulence
117	Douglas Holland	GS	Biology	Evaluation of Antibacterial Activity of Vangueria Volkensii Extracts
118	Maribel Gómez	UG	Psychology	Understanding Postpartum Depression

Oral Session 3



Wednesday – April 25, 2018 • 4 P.M. – 5:30 p.m.

Student Center room 120

No.	Presenter	Status	Discipline	Presentation Title
119	Raúl Zapata Raul Alejandro Zapata Adalberto Placeres Alfredo Vela Samuel Martínez Heriberto Domínguez	UG	Math	Half Life
120	Kristina Martínez Karla Guadarrama	UG	Math	Rational and Irrational Numbers
121	Jonathan Loa Jessica Godines Ofelia Mata Abigail Cadena	UG	Math	Fluid Mechanics
122	Ramiro García Arturo Velázquez	UG	Math	RC Series Circuits
123	Ramiro López Miguel Regalado Claudia Mendiola Brenda Orozco Dania Flores Bethsaida Delgado	UG	Physics	Three Structural Roles for Water in Bone Observed by Solid-State NMR

Student Center room 225

No.	Presenter	Status	Discipline	Presentation Title
124	Jasmine Idrogo	UG	Criminal Justice	Texas Mental Health Courts
125	Martha Lerma	UG	History	The Fight Against Independence in the North of Mexico: Insurgents Wanted
126	Karina Flores	UG	Finance	The Advantages of Calculating Financial Risk and Analyzing Decision Making in a Business Using the Enterprise Risk Management Strategy

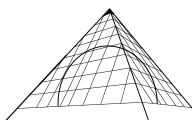
Center for the Fine and Performing Arts – Recital Hall room 107

No.	Presenter	Status	Discipline	Presentation Title
127	Orlando Reyes	UG	Music	Alexander Scriabin as Musical ‘Philosopher of the Future:’ An Exploration of Nietzsche’s Influence on Music

Student Center room 230

No.	Presenter	Status	Discipline	Presentation Title
128	Orlando M. Patricio	GS	Math	SAS Survival Analysis Techniques for Medical Research
129	Julieta Salinas	GS	Math	Randomized Clinical Trial
130	Naomi Pérez Analia X. Fuentes	GS	Math	Comparing Standard Practices in Clinical Research in Developing Countries and the United States
131	Sandra A. Duarte	GS	Math	Clinical Trial on Breast Cancer
132	Oscar M. Benavides	GS	Math	Crossover Design Approach to Clinical Trials

Oral Session 4



Wednesday – April 25, 2018 • 5:30 P.M. – 7 p.m.

Student Center room 225

No.	Presenter	Status	Discipline	Presentation Title
133	Joaquin Pérez	UG	Philosophy	Friedrich Nietzsche's case of Socrates.
134	Alan García	UG	Philosophy	Capitalism and Economic Inequality in America
135	Hannah Gutiérrez Alyssa Vera	UG	Psychology	Automatic Judgments and Subtle Stereotypes: The Relationship Between a College Student's Prediction of Course Achievement and Various Professor Attributes

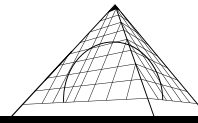
Student Center room 230

No.	Presenter	Status	Discipline	Presentation Title
136	José Casiano	UG	History	Jetzt Stille Stille: The Stasi's Impact on Modern Surveillance
137	Areli Vázquez	UG	Education	The Effects of Growth Mindset on Mathematics Performance

Student Center room 231

No.	Presenter	Status	Discipline	Presentation Title
138	Mireya Morales Lizette Ramirez Whitney Pérez Yulissa Tisnado Omar Buentello	UG	Math	Rate of Heat Lost
139	Cassandra Ramírez	UG	Biology	Antibiotic Resistance of Mycoplasma Pneumoniae
140	Enrique Álvarez	UG	Biology	Entomopathogenic Nematodes
141	Douglas Holland	GS	Physics	Characterization of The Disused Mice Cortical Bone Bound Water Changes by Low-Field and High-Field Nuclear Magnetic Resonance (NMR)

Oral Session 5



Thursday – April 26, 2018 • 9 – 10:30 a.m.

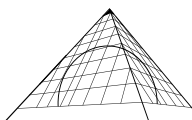
Student Center room 230

No.	Presenter	Status	Discipline	Presentation Title
142	Miguel Macalindong	UG	Physics	The Characterization of Human Compact Bone Structure Changes by Low-Field Nuclear Magnetic Resonance
143	Alejandra Padilla Estefania Padilla	UG	Physics	Characterization of Microstructural Changes on Electroacupuncture Induced Rat Skeletal Muscle by Low-Field NMR and Microscope Image
144	Melissa Marchan	UG	Biology	Studying Regulatory Mechanisms in <i>Morganella Morganii</i>
145	Ramiro Castillo	GS	Math	Randomization Methods for Clinical Trials

Student Center room 231

No.	Presenter	Status	Discipline	Presentation Title
146	Walter Zapata	UG	Criminal Justice	Can Attorney-Client Privilege Pose an Issue?

Oral Session 6



Thursday – April 26, 2018 • 10:30 a.m. - 12 p.m.

Bob Bullock Hall room 114

No.	Presenter	Status	Discipline	Presentation Title
147	Samantha Benavides Cecilia Pérez	UG	Sociology	Masterpiece Cakeshop vs. Colorado Civil Rights Commission
148	Mirna Martínez Abigail De León	UG	Sociology	Stress Among College Students
149	Claudia De Ita Alejandra Martínez	UG	Sociology	Domestic Animal Rights
150	Paola Ortega Jaziel Cantú	UG	Psychology	Life With Schizophrenia
151	Sofia Gallardo	UG	Psychology	Marijuana and Depression

Bob Bullock Hall room 219

No.	Presenter	Status	Discipline	Presentation Title
152	Arnoldo Dimas	UG	Psychology	Post-Traumatic Stress Disorder in Veterans
153	Nallely Escamilla María Rodríguez	UG	Psychology	Serial Killers by Nature or Nurture
154	Dante Briones Carlos Cuellar	UG	Psychology	Smoking vs. Vaping
155	Daniela Gutiérrez	UG	Psychology	Music and The Mind
156	Sandra Hernández Héctor Cruz	UG	Psychology	Mental Illness Behind School Shooters
157	Alexandra Reyes	GS	Psychology	Investigating Language Switching Habits Effects on Cognitive Abilities and Behavior

Student Center room 120

No.	Presenter	Status	Discipline	Presentation Title
158	Alfredo Sánchez, IV Erika Lozano Robert González, III	UG	Nursing	Concussions
159	Isaiah Treviño	UG	Kinesiology	Steroid & PED's in Professional Sports
160	Alexis Chapa Gabriela Tijerina	UG	Biology	Marine Life in Waterparks
161	Vanesa Puente Pola Hannan Kuri	UG	Biology	Musical Stimulation: Does it Affect Plant Growth and Development?

Student Center room 225

No.	Presenter	Status	Discipline	Presentation Title
162	Kevin Esparza	UG	Biology	Harp Seals and Climate Change
163	Jennifer Rangel Irma Alcorta	UG	Biology	The Halitrephes Maasi
164	Julio Mata, III	UG	Biology	Fat Burning Fat
165	Priscilla Montemayor	UG	Biology	What Effect Does Glucose Solution Have on the Longevity of Cut Flowers?

Student Center room 230

No.	Presenter	Status	Discipline	Presentation Title
166	George Blevins	UG	Political Science	The Legalization of Marijuana
167	Fernando Inclán Alberto Duarte	UG	Business	How Important is the World Trade Bridge?
168	Eduardo Moreno	UG	Economics	How Latinos Can Improve Economically
169	Roberto Díaz	UG	Marketing	Neuromarketing: The New Science of Consumer Behavior

Student Center room 231

No.	Presenter	Status	Discipline	Presentation Title
170	Alexandra Castro Bryan Martínez	UG	Education	Standardized Tests: Aggressive or Progressive?
171	Julissa Vicharelli Jesús Huerta	UG	Special Education	Autism Awareness
172	Jaspe Patterson	UG	History	Women, Patriarchy and The Mexican Revolution
173	Silverio García	UG	History	Global Medicine
174	Xiomara González	GS	Literature	Living in the Wake of Healing: Reading Morrison's ' <i>Beloved</i> ' as a Charge for Womanist Collectivity

Western Hemispheric Trade Center room 126

No.	Presenter	Status	Discipline	Presentation Title
175	Francisco Gallardo Alejandra Morales	UG	Astronomy	How to Find Life in Other Planets?
176	Carla Cuéllar Andrea Covarrubias	UG	Environmental Science	History and Future of GMO's
177	Javier Romero David Gutiérrez Ramón Treviño Miguel Quiroz	UG	Environmental Science	Study of Sudden Loss of Aquatic Life in Local Water Body

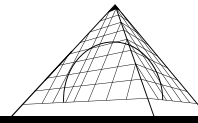
Killam Library room 102

No.	Presenter	Status	Discipline	Presentation Title
178	Omar Alaina Wassan Al-Sammarraie Javier Paz Hernan See	UG	Physics	Assessment of Structural Changes of Human Teeth by Low-Field Nuclear Magnetic Resonance (NMR)
179	Daniela Dally Daniel Gutiérrez Conrado Quiroga	UG	Physics	Cartil-Age
180	Ray Casas	UG	Math	On the Chaotic Behavior of Unimodal Maps
181	Aaron Sánchez Fernando Guevara, Jr. Joe De La Cruz Luis García Viannay Vásquez	UG	Math	Exponential Growth with Differential Equations

Senator Judith Zaffirini Student Success Center room 120

No.	Presenter	Status	Discipline	Presentation Title
182	Yotzimara Osorio	UG	Spanish Literature	Las Relaciones Familiares en <i>Don Quijote de la Mancha</i>
183	Daniela Rodríguez	UG	Spanish Literature	El Vigor de los Personajes Secundarios en <i>Don Quijote de la Mancha</i>
184	Itzamara Flores	UG	Spanish Literature	<i>Don Quijote de la Mancha</i> Como Precursor de la Narrativa Moderna
185	Dania Elizondo	UG	Spanish Literature	El Sujeto Femenino Dentro <i>Don Quijote de La Mancha</i>
186	Anahí Escobedo	UG	Spanish Literature	Mujeres Importantes en <i>Don Quijote de la Mancha</i> de Miguel de Cervantes Saavedra

Oral Session 7



Thursday – April 26, 2018 • 12:30 a.m. - 2 p.m.

Student Center room 120

No.	Presenter	Status	Discipline	Presentation Title
187	Ricardo Martínez	UG	Biology	Determining Minimum Inhibitory Concentrations of Triclosan for Soil Bacteria
188	David Vázquez	GS	Biology	PCR amplification of the Androgen Alpha Receptor in Cichlid Fishes with Alternative Mating Strategies
189	Martha Lerma María Bernal Umberto Fasci	UG	Environmental Science	The Rio Grande Data

Student Center room 225

No.	Presenter	Status	Discipline	Presentation Title
190	Ernesto Macías Daniela Ramos Julián Quesada	UG	Physics	Comparison of Human Cortical Bone, Trabecular Bone, and Tooth Study by Low Field NMR
191	Alberto González Roy Aguiar Kayla Escamilla Deyanira Gómez	UG	Math	Falling Object
192	Gerardo Martínez Benjamín Escoto Alexis Cantú Javier Gonzales	UG	Math	Exponential Growth
193	Carlos Guzmán	UG	Engineering	A Survey of Traffic Signal Operation for Disaster Evacuation
194	Juan Gómez Maximiliano Torres Misael Aguilera Jesús	UG	Engineering	Exponential Decay

Student Center room 230

No.	Presenter	Status	Discipline	Presentation Title
195	Víctor Espinosa	UG	Management Information Systems	Functions and Applications of Encryption
196	Valeria Garza	GS	Psychology	Substance Use Addiction: A Sexual Victim's Escape

Center for the Fine and Performing Arts room 108

No.	Presenter	Status	Discipline	Presentation Title
197	Fabiola Olguín	UG	Dance	Still an Innocent
198	Valerie Gardea	UG	Fine Arts	Contrast
199	Rolando Medrano	GS	Dance	...Of Who I Am...

Student Center room 231

No.	Presenter	Status	Discipline	Presentation Title
200	Misael A. Aguilera Alexandra Pérez	UG	Math	Simultaneous Confidence Intervals and ANOVA and Randomized Block Experiments for Comparing K- Treatments
201	Xóchitl Cervantes Jisel M. Sánchez	UG	Math	Stability of Random Observations and Bivariate Data
202	Brandon Montes Ramiro C. García	UG	Math	A Designed Experiment for Bivariate Data
203	María F. Vásquez Jonathan R. Loa	UG	Math	Correlation and Prediction – Linear Regression
204	José L. Arellano Jaime Heredia	UG	Math	Random Sampling From a Finite Population and Applications of Laws of Probability
205	Gabriella C. Gaona Bettina Lerke	UG	Math	Discrete Probability Distribution and Examples
206	Lorna P. Espinoza Ray R. Casas	UG	Math	Normal Distribution: General Features, Calculation, and Plausibility of a Normal Model
207	Orlando D. Reyes Raul A. Ortíz	UG	Math	Sampling Distribution Of Statistic
208	Jorge E. Piña Alberto Sáenz	UG	Math	Statistical Inference: Estimation and Testing
209	Aaron Sánchez Jessy L. Castillo	UG	Math	Testing Hypotheses About a Population Mean and Small Sample Inferences for Normal Populations
210	Ofelia G. Mata- Aguilera Jessica Godines	UG	Math	Independent and Matched Pairs Samples and Independent Comparison
211	Viannay Vásquez Robert J. Godines	UG	Math	Sampling Variability of the Least Squares Estimators – Tools for Inference
212	Elizabeth Aguilar Wasan Al-Sammarraie	UG	Math	The Strength of a Linear Relation, Nonlinear Relations, and Multiple Linear Regression
213	Omar Botello Yulissa Tiznado	UG	Math	Formulating Testing Problems for Categorical Data
214	Jesús A. Torres Samuel Martínez	UG	Math	Several Treatments – One-Way Analysis of Variance
215	Teodoro Silva Felipe Yniguez	UG	Math	Measures of Correlation Based on Rankings

Western Hemispheric Trade Center room 126

No.	Presenter	Status	Discipline	Presentation Title
216	Itzamara Flores	UG	Spanish Literature	El Cubismo Absurdo Para La Búsqueda Del Ser En Rayuela De Julio Cortázar
217	Daniela Rodríguez	UG	Spanish Literature	La Restricción del Sujeto Femenino Durante la Dictadura de Franco en <i>El Cuarto De Atrás</i> (1978) De Carmen Martín Gaité
218	Clarissa Moreno	UG	Spanish Literature	La Literatura Fantástica en <i>La Mujer Negra</i> de José Zorrilla
219	Nikolas Herrera	UG	Literature	The Extraordinarily Ordinary
220	Yuridia Rodríguez	GS	Literature	Self-Reliance and the Feminist Movement During the Transcendentalism Era Through the Lens Of Hester Prynne
221	Celinda Mendoza	GS	Literature	You Know You That Bitch When You Cause All This Conversation: The Bodaciousness of Beyonce's Feminism



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