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February 16, 2017

Dear Conference Participants:

Welcome to the 19th Annual Texas National McNair Scholars Research Conference. The University of North Texas (UNT) McNair Scholars Program is proud, and honored, to serve as host for this conference. The success of this conference must be credited to all the McNair Scholars, their program directors and staff, and the graduate recruiters who participate in our conference. You all are lifeblood of this conference. Thank you all! We hope to see you again in 2018 at the 20th Annual Conference.

UNT is a university on the move. We hope you will explore and take advantage of your time here. If you can, take in some of UNT's history. As you stroll across campus, you may be walking in the footsteps of Don Henley, Norah Jones, Larry McMurtry, Bill Moyers, Pat Boone, Roy Orbison, or Mean Joe Greene. Here are a few of UNT's academic bragging points, our UNT "firsts" and "bests" through the years:

- Recognized as a Carnegie Tier One university in 2016
- First jazz studies program in the U.S. and consistently ranked as the nation's best
- Home to four Institutes of Research Excellence:
 - Advanced Environmental Research Institute
 - Advanced Materials and Manufacturing Processes Institute
 - BioDiscovery Institute
 - Logistics Systems Institute
- Named one of America's 100 Best College Buys® for 20 consecutive years
- First peace studies program in the Southwest
- UNT named a Best in the West college by The Princeton Review for six consecutive years
- Graduate counseling program ranked 1st in Texas and 13th in the nation by U.S. News and World Report
- First Ph.D. program in art education in Texas

We are proud of our university and grateful for the support it provides to our program through contributions of faculty time and direct support to the Scholars. We are forever indebted to all the wonderful mentors who give of their time to nurture our Scholars.

Our hope for you is that this conference is enlightening, informative, and enjoyable. We know you have many choices, and we are glad that you have chosen to be with us at our conference. Thank you.

Don't hesitate to connect with any of the UNT McNair staff and McNair Scholars if you have questions, need assistance, or want to find out more about UNT!

Welcome to UNT!

UNT McNair Staff and McNair Scholars

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NOTES

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SPEAKER BIOGRAPHIES



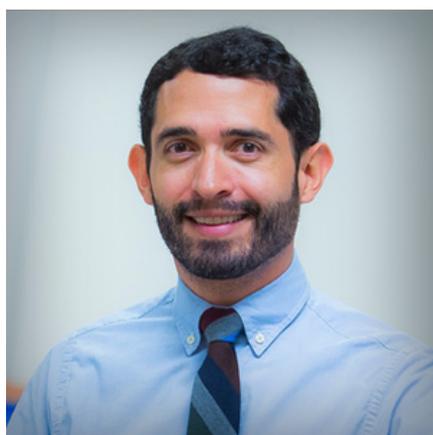
Debra Joy Pérez, Ph.D., is chief evaluation and learning officer at the Gordon and Betty Moore Foundation. As Chief, she works closely with the grant-making teams to advance the organization’s work in science, environmental conservation, patient care, and in the Bay Area. As chief evaluation, learning and monitoring officer, Pérez oversees a team of evaluation and monitoring officers including those embedded within the foundation’s four grant-making programs. Debra has extensive experience in leading research, evaluation and monitoring practices in philanthropy. She has been a leader in advancing evidence-based practices in evaluation and building new

fields of research. Debra is an expert in designing integrated processes to support evaluation, research and learning across discrete program areas. At Moore, Dr. Perez develops and operationalizes a strengthened approach to measurement, evaluation and learning for the foundation, and design the structures and processes to support this work throughout the organization, including the integration of measurement and evaluation processes with program design, adaptive management, and continuous learning. She is responsible for overseeing the management of independent external evaluations of the foundation’s programmatic work, from scoping and design of the evaluation through dissemination of evaluation results. She is an advocate for transparency in philanthropy by sharing evaluation results with the public and key stakeholders, and facilitating dialogue on the foundation’s evaluation philosophy and efforts, both internally and externally. She is also responsible for developing and operationalizing a strong organization-wide approach to learning, including improving and streamlining internal learning practices, introducing tools to foster cross-team learning, facilitating and sharing of current, better, best practices across our programs, and managing the dissemination of key learnings to the public and the fields in which Moore works.

Prior to joining Moore, Dr. Pérez was Vice President of Research, Evaluation and Learning at the Annie E. Casey Foundation (AECF). At AECF, Dr. Pérez was a member of the senior leadership team where she implemented new approaches for program performance measurement and management that align with program strategy and funding priorities. As the Vice President, Debra provided leadership and direction for the Unit’s signature efforts in promoting diversity in the evaluation field. The *“Expanding the Bench”* initiative supports evaluators and researchers of color to acquire skills in equitable evaluation practices. The Leaders in Equitable Evaluation and Diversity program was launched in the fall of 2015 and includes partnerships with major national evaluation firms, multiple funders, and universities. Prior to joining AECF, Dr. Perez was the assistant vice president for research and evaluation at the Robert Wood Johnson Foundation, where she focused on improving the quality of healthcare, reducing disparities, and building the field of Public Health Services and Systems

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Research. She has connected multiple diverse networks to both AECF's and RWJF's work. She earned a bachelor's in communication from Douglass College; a master's in social science and women's studies from the University of Kent in Canterbury, England; a master of public administration from Baruch College, City University of New York; and a PhD in health policy from Harvard University. Dr. Pérez is a mentor of emerging and mid-career professionals interested in becoming public leaders. She has received multiple awards including the 2010 Latino Trendsetter Award, the 2011 YWCA Women of Industry Award and the 2015 Hispanics Inspiring Student Achievement (HISPA) Leadership in Mentoring award. In 2015, she has also received an Honorary Doctorate from Thomas Jefferson University in Philadelphia, PA. She is a 2016 Hispanics in Philanthropy HIPGiver and was featured in Latina Style Magazine as one of the Latina leaders in philanthropy.



Dr. David P. Rivera is an associate professor of counselor education at Queens College, City University of New York. He holds degrees from Teachers College, Columbia University, Johns Hopkins University, and the University of Wyoming where he was a McNair Scholar. A counseling psychologist by training, his professional experience includes managing college access and success programs, college counseling, and higher education administration. Dr. Rivera has worked at a variety of institutions including, the City University of New York, University of Pennsylvania, the New School University, the Jack Kent Cooke Foundation, and the Addiction Institute of New York. His practical work also includes consultations and trainings on a variety of cultural competency issues. His research focuses on cultural competency development and issues impacting the marginalization and wellbeing of low-income/first-generation college students, people of color, and oppressed sexual orientation and gender identity groups, with a focus on microaggressions. Dr. Rivera is faculty with the Council for Opportunity in Education, adviser to The Steve Fund, board co-chair of CLAGS: Center for LGBTQ Studies, on the executive board of the American Psychological Association's Society for the Psychological study of Lesbian, Gay, Bisexual, and Transgender Issues, and on the American Psychological Association's Committee for Sexual Orientation and Gender Diversity. He has received multiple recognitions for his work, including national honors from the American Psychological Association, the American College Counseling Association, and the American College Personnel Association.

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CONFERENCE SCHEDULE

Date	Time	Event	Location
Thursday 2.16.2017	5:00 PM – 8:00 PM	Welcome Reception <ul style="list-style-type: none"> • Informal get together with light hors d'oeuvres • A social and networking event 	Hilton Garden Inn Hotel
Friday 2.17.2017	7:15 AM	Registration Opens	Student Union 314 Foyer
	7:30 AM – 8:45 AM	Food Event 1: Meet and Greet Breakfast <ul style="list-style-type: none"> • Sponsored by UNT's Division of Enrollment and the Toulouse Graduate School 	Student Union 314 AB
	8:45 AM – 9:00 AM	Conference Opening <ul style="list-style-type: none"> • Victor Prybutok, the Vice Provost, Toulouse Graduate School • Glenisson de Oliveira, Dean, Honors College 	Student Union 314 AB
	9:00 AM – 10:15 AM	First Engagement: The Research Apprenticeship of the Graduate Student <ul style="list-style-type: none"> • Panel discussion with UNT faculty researchers 	Student Union 314 AB
	10:15 AM – 10:30 AM	Morning Break <ul style="list-style-type: none"> • Coffee & Tea 	Student Union
	10:30 AM – Noon	Graduate Schools & Programs Recruitment Fair, Part 1 <ul style="list-style-type: none"> • Open to McNair Scholars Only 	Student Union 333
	11:30 AM – 1:00 PM	Food Event 2: Lunch <ul style="list-style-type: none"> • Box lunch for McNair Scholars, McNair Staff, and Graduate Recruiters 	Student Union 314 AB
	11:30 AM – 1:00 PM	Poster Set Up <ul style="list-style-type: none"> • Scholars put up posters for review and viewing 	Student Union 314 C
	Noon – 2:00 PM	Graduate Schools & Programs Recruitment Fair, Part 2 <ul style="list-style-type: none"> • Open to McNair Scholars; UNT Honors Students; UNT Undergraduate Research Fellows 	Student Union 314 AB
	1:30PM – 3:15 PM	Poster Presentations and Review <ul style="list-style-type: none"> • Review of posters • Public viewing of posters • Posters taken down by 5:00 PM 	Student Union 314 C
	3:15 PM – 3:30 PM	Afternoon Break Snacks and Drinks	Student Union

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Friday 2.17.2017	3:30 PM – 5:00 PM	Second Engagement: Graduate Recruiters Panel <ul style="list-style-type: none"> • Graduate recruiters discuss all things related to graduate school admissions, applications, etc. 	Student Union 314 AB
	5:00 PM – 6:45 PM	BREAK BEFORE DINNER	Shuttles to and from hotels and campus
	7:00 PM – 8:00 PM	Food Event 3: Opening Dinner	Student Union 314 AB
	8:00 PM – 9:00 PM	Third Engagement: McNair Alumni & Their Stories to the Ph.D. and Beyond A panel of McNair alumni will discuss the role of the McNair experience on their movement to and through graduate school and their career.	Student Union 314 AB
	9:00 PM →	On Your Own	
Saturday 2.18.2017	7:30 AM – 8:45 AM	Food Event 4: Hot Breakfast <ul style="list-style-type: none"> • Come wake up to some good food 	Gateway Center Ballroom
	9:00 AM – 10 AM	Fourth Engagement: Resilience & Grit David P. Rivera, Ph.D., Associate Professor of Counselor Education, Queens College, City University of New York	Gateway Center Ballroom
	10:00 AM – Noon	McNair Scholars Oral Presentations <ul style="list-style-type: none"> • See separate schedules for times and rooms, etc. 	Gateway Center
	Noon – 1:30 PM	Food Event 5: Lunch <ul style="list-style-type: none"> • Box lunch for all conference attendees 	Gateway Center Ballroom
	1:30 PM – 5:00 PM	McNair Scholars Oral Presentations <ul style="list-style-type: none"> • See separate schedules for times and rooms, etc. 	Gateway Center
	5:00 PM – 6:45 PM	BREAK BEFORE DINNER	Shuttles to and fro hotels and campus
	7:00 PM – 8:00 PM	Food Event 6: Celebration Dinner	Student Union 314 AB
	8:00 PM – 9:00 PM	Sixth Engagement: Keynote Speaker Dr. Debra Joy Perez	Student Union 314 AB
	9:00 PM →	On Your Own → Go Explore Denton!	
Sunday 2.19.2017	8:00 AM – 10:00 AM	Farewell Breakfast/Brunch <ul style="list-style-type: none"> • Hot Tex-Mex food to send you on your way • A social and networking event 	Hilton Garden Inn

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THANK YOU

This conference, like all McNair Research conferences, is a collective and collaborative project. Many people are contributing time, resources, ideas, and suggestions. Although we can never repay them for their contributions, we would like to thank the following units, groups, and individuals who have made this conference possible:

University of North Texas

- Division of Enrollment
 - Shannon Goodman, Vice President for Enrollment
 - Rebecca Lothringer, Executive Director of Admissions
 - Dana Mordecai, Assistant Director of Admissions
- Toulouse Graduate School
 - Victor Prybutok, Vice Provost
- Texas Academy of Mathematics and Sciences and the Honors College
 - Glênisson de Oliveira, Dean
 - Eric Gruver, Associate Dean for Academics
 - James Duban, Associate Dean for Research and National Scholarships
 - Teresa Brooks, Administrative Coordinator for Finance and Operations
 - Rose Preston, Director for Finance and Operations
 - Diana Dunklau, Marketing Director
 - Roy Zumwalt, Director for IT Services
 - Russ Stukel, Assistant Dean for Student Life
- McNair Advisory Board Members
 - Bill Acree, Professor, Chemistry
 - Bertina Combes, Professor, Educational Psychology
 - Glênisson deOliveira, Dean, TAMS and Honors College
 - Rebecca Dickstein, Professor, Biological Sciences
 - James Duban, Associate Dean, TAMS and Honors College
 - John Ishiyama, Professor, Political Science
 - Sharon Jenkins, Professor, Psychology
 - James Meernik, Professor, Political Science
 - Mariela Nunez-Janes, Associate Professor, Anthropology
 - Enedelia Saucedo, Psychologist, Counseling and Testing
 - Mark Vosvick, Associate Professor, Psychology
- The McNair Faculty Mentors
- Conference Evaluators
- Conference Moderators
- UNT McNair Scholars
- UNT Green Jackets

A hearty thank you from the entire McNair staff!

PRESENTING SCHOLARS (ORAL)

ABS	Scholar	Major	University	Time	Room
1	Archibeque, Ben	Physics Education	Kansas State University	2:20	51
2	Arroyo, Raul	Field Crop Management with a minor in Horticulture	Washington State University	10:00	52
4	Baldovinos, Diana	International Business & Psychology	Washington State University	3:10	51
5	Barrera, Maribel	Chemistry	University of North Texas	10:00	43
6	Bazaldua, Jaclyn	Biology & Microbiology	University of Texas at Arlington	10:25	43
7	Beans, Nekkita	Social Work	University of Mississippi	10:00	47
9	Burt, Meagan	Political Science	University of North Texas	10:25	47
10	Calvillo, Joana	Psychology	University of North Texas	10:50	47
11	Cardwell, Tristen	English/Philosophy	University of Texas at Arlington	10:00	51
12	Carrillo, Dominic	Math/ Computer Science	Sul Ross State University	1:30	52
14	Clymer, Robin	Medical Physics	East Central University	10:50	43
15	Corona Rodriguez, Rodolfo	Computer Science	University of Texas at Austin	1:55	52
17	Croom, Justin	Physics & Mathematics	University of North Texas	1:55	42
18	Culver, Steven	Mechanical Engineering	Texas Christian University	10:00	42
20	Delwel, Isabel	Biology	University of North Texas	11:15	43
21	Diaz, Brian	Mathematics	St. Mary's University	2:20	52
22	Dickerson, Jake	Music Composition	Southern Nazarene University	10:25	51
23	Earland, Dominique	Biology	Southern Methodist University	11:40	43
24	Earland, Noah	Biology; Minor in Biomedical Anthropology	Southern Methodist University	1:30	43
25	Ellison, Ashley	School Psychology	Eastern Washington University	11:15	47
28	Farnell, Jeremy	Nursing	Southern Nazarene University	11:40	47
29	Fernandez, Rolando	Computer Science	University of Texas at Austin	2:45	52
30	Frasier, Tuesday	Anthropology	Kansas State University	2:20	42
32	Garza, Stormie	Biomedical Engineering	University of North Texas	10:25	42

ABS	Scholar	Major	University	Time	Room
33	Grant, Meliah	Communicative Sciences and Disorders	University of Mississippi	1:30	47
34	Griggs, Tosha	Psychology	University of North Texas	1:55	47
35	Gutierrez, Saul	Computer Science & Engineering	University of Texas at Arlington	10:50	42
36	Hankins, Kayla	Biology	Sam Houston State University	1:55	43
39	Hernandez Farias, Dalia	English and History Education	Washington State University	3:35	51
40	Herrera, Christa	Psychology	St. Mary's University	2:20	47
41	Hudson, Keena	Apparel Merchandising Design and Textiles	Washington State University	3:10	47
42	Hughes, Kody	Biochemistry	University of North Texas	2:20	43
43	Hurtado, Richelle	Psychology and Behavior Analysis	University of North Texas	3:35	47
44	Jesse, Sean	Physics	East Central University	3:10	42
46	Kennedy, Conner	Biochemistry	University of North Texas	2:45	43
49	Long, Nicolas	Mechanical Engineering	University of Texas at Arlington	3:35	42
50	Lopez, Miguel	Nutritional Sciences - Coordinated Dietetics	Texas Christian University	3:35	43
53	Martinez, Claudia	Spanish	University of Texas at Arlington	10:50	51
55	McCalidaine, Ella	Sociology	Eastern Washington University	4:00	47
56	McGill, Jazmine	Sociology	University of North Texas	4:25	47
57	McNease, Georgi	Criminal Justice	Sam Houston State University	10:00	48
58	Melendez, Edith	Psychology - School counseling- education	Eastern Washington University	10:25	48
59	Molinar, Aja	Psychology	Wichita State University	10:50	48
60	Moore, Cheyenne	English	Sam Houston State University	11:15	51
61	Moore, Everett	Psychology	Sam Houston State University	11:15	48
62	Muniz, Fabiola	Communication	Sul Ross State University	11:40	51
63	Navarro, Eric	Zoology	Washington State University	4:00	43
65	Noah, Emilie	Psychology	Southern Nazarene University	11:40	48
67	O'Neil, Hannah	Social Work	Kansas State University	1:30	48
68	Palacios, Karen	Sociology	Kansas State University	1:55	48
69	Pecina, David	Mechanical Energy Engineering	University of North Texas	11:15	42
70	Pena, Alonso	English/ American Ethnic Studies	Kansas State University	1:30	51
71	Penton, Melissa	Molecular Biology	East Central University	4:25	43
72	Pinales, Stephany	Psychology	Sam Houston State University	2:20	48
73	Porter, Baylee	Psychology/Biology	Kansas State University	10:25	52

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ABS	Scholar	Major	University	Time	Room
74	Quarnstrom, Donya	Economics	Eastern Washington University	2:45	48
76	Ramsey, Erin	Psychology	Southern Nazarene University	3:35	48
77	Rodriguez, Lourdes	Psychology	University of North Texas	4:00	48
80	Rosas, Audel	International Affairs	Eastern Washington University	4:00	51
82	Smith, Robert P	Mechanical & Energy Engineering	University of North Texas	11:40	42
84	Tarpley Johnson, Davida	Global E-Learning/Psychology	Texas A&M University-Commerce	4:25	48
85	Velasco, Lidia	Anthropology	Eastern Washington University	1:55	51
86	Velasquez, Roxana	Bio-chem	Southern Nazarene University	4:00	42
87	Wages, Dylan	Biomedical Engineering	University of North Texas	1:30	42
89	Williams Kang, Katie	Microbiology	University of Texas at Arlington	4:25	42
90	Yarbrough, Joshua	Psychology	University of North Texas	10:50	52
91	Zayas, Minerva	Women and Gender Studies and Psychology	Eastern Washington University	11:15	52

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PRESENTING SCHOLARS (POSTERS)

All posters will be on the third floor, with presentations starting at 1:30pm. Posters can be set up from 11:30am– 1:00pm.

ABS #	Scholar	Major	University
3	Avila, Yelixza	Biology	Sul Ross State University
8	Brooks, Hazel	Psychology	Southern Nazarene University
13	Chavez, Joey	English	Sul Ross State University
16	Cowan, Landon	Applied Behavior Analysis; Spanish	University of North Texas
19	De Paz, Mayte	Education	University of Texas at Austin
26	Elmore, Stephanie	Geology	Sul Ross State University
27	Espinoza, Jonathan	Communications	West Texas A&M University
31	Galdamez, Michelle	Health Sciences	West Texas A&M University
37	Hare, Daejha	Human Development	Washington State University
38	Hernandez, Daniel	Health Sciences	West Texas A&M University
45	Kaur, Harmanpreet	Biology	Texas A&M University-Commerce
47	Kent, Jesse	Physics	University of North Texas
48	Licon, Jonathan	Biochemistry	West Texas A&M University
51	Luevano, Edgardo	Biochemistry	Southern Nazarene University
52	Maldonado, Adrian	Biology/Math	Sul Ross State University
54	Maxie, LaDee	African & African Diaspora	University of Texas at Austin
64	Negron Rolon, Christian	Biology	Cleveland State University
66	O'Dell, Kylee	Physics	East Central University
75	Quinonez, Jasmin	Criminal Justice	Sul Ross State University
78	Rodriguez, Vanessa	Psychology	University of Texas at Austin
79	Romero, Alexys	Mechanical Engineering	West Texas A&M University
81	Ross, Kyler	Chemistry	Southern Nazarene University
83	Swanson, Shalonda	Sociology	Cleveland State University
88	Wagner, Courtney	Psychology	University of Wisconsin-Stout

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CONCURRENT MORNING ORAL PRESENTATION SCHEDULE

Room		042		043		047		048		051		052
		Engineering		Biological Sciences		Social Sciences		Social Sciences		Arts & Humanities		Biological & Social Sciences
Time	ABS		ABS		ABS		ABS		ABS		ABS	
10:00	18	Culver, Steven Use of an Xbox Kinect™ as a 3D Scanner for the Manufacturing of Custom Orthotic Insoles	5	Barrera, Maribel Solubility of sorbic acid in organic mono-solvents: calculation of Abraham model solute descriptors from measured solubility data	7	Beans, Nekkita Exploring Instigators of General Anxiety in African American Emerging Adults	57	McNease, Georgi Intervention Points for Post- Separation Sexual Assault	11	Cardwell, Tristen Essential Indexicality and Self-Consciousness	2	Arroyo, Raul Response of Weed Roots to the Cellulose Biosynthesis Inhibitor Herbicide Indaziflam (Alion)
10:25	32	Garza, Stormie Study of a Lightweight Lower Extremity Exoskeleton for Rehabilitative Gait	6	Bazaldua, Jaclyn The Antibacterial Activity of Organotins and Organometallics	9	Burt, Meagan "Between Public and Private": Tunisia's LGBT NGOs	58	Melendez, Edith Best practices for undocumented students in institutions of higher education: A qualitative study	22	Dickerson, Jake A Musical Day in the Neighborhood: Studying the Music of Fred Rogers	73	Porter, Baylee Establishing odor and stress behavioral paradigms in zebrafish
10:50	35	Gutierrez, Saul Comparison of LabVIEW Machine Learning Algorithms for Optimizing Grasping Patterns of a Mechanical Hand	14	Clymer, Robin Hermite Polynomials within the Edgeworth Expansion	10	Calvillo, Joana The Moderation Effect of Cultural Orientation on Attachment and Death Attitudes	59	Molinar, Aja The Effects of Cell Phone Interruptions on Students with Anxiety	53	Martinez, Claudia Attitudes and Uses of the Spanish Language in the Dallas-Fort Worth Metroplex	90	Yarbrough, Joshua Interpersonal Relationships in Prison Systems and their Effects after Release

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Room		042		043		047		048		051		052
		Engineering		Biological Sciences		Social Sciences		Social Sciences		Arts & Humanities		Biological & Social Sciences
Time	ABS		ABS		ABS		ABS		ABS		ABS	
11:15	69	Pecina, David Solar Heated Water Tank	20	Delwel, Isabel Streptomyces griseus bacteriophage Olympic Helado: Discovery and Comparison	25	Ellison, Ashley Addressing the Gaps in Services and Supports a Regional Comprehensive University Offers for Students Who Have Experienced Trauma	61	Moore, Everett Spitting Game: The Intersection of Gender, Ethnicity, and Opening Gambits	60	Moore, Cheyenne Hypermasculinity, the sublime, and determinism in Mary Shelley's Frankenstein	91	Zayas, Minerva Beyond labels and boundaries: Queer chicana individuals and psychological identity development
11:40	82	Smith, Robert P Designing a Solar Thermoelectric Generator, Mk II	23	Earland, Dominique Anemia in Pregnancy in Western Jamaica	28	Farnell, Jeremy Momento Mori: The Relationship Between Defensive Theology and Memory Recall	65	Noah, Emilie Am I the Master of My Fate?	62	Muniz, Fabiola Underrepresentation of Female Morning Show Hosts: The Gap Between Men and Women in Radio		Break

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CONCURRENT AFTERNOON ORAL PRESENTATION SCHEDULE

Room		042		043		047		048		051		052
		Engineering & Physical Sciences		Biological Sciences		Social Sciences		Social Sciences		Humanities & Education		Mathematics & Computer Science
Time	ABS		ABS		ABS		ABS		ABS		ABS	
1:30	87	Wages, Dylan Artificial Muscles in an Exoskeleton	24	Earland, Noah Investigating peroxiredoxin impact on the intersect of constitutive AMP production and aging in drosophila	33	Grant, Meliah The Effects of Prosthetic Tactile Feedback on Persons Who Stutter	67	O'Neil, Hannah Elementary Student Outcomes from an Intergenerational Experience	70	Pena, Alonso Decolonizing Knowledge: Self-construction of Super Queeroes through Witnessing and Disidentification	12	Carrillo, Dominic Creation of a Perfect Hockey Bracket: Use of Matrices to Depict the Outcome of the Stanley Cup
1:55	17	Croom, Justin An Overview of Antihydrogen Physics	36	Hankins, Kayla The Molecular Assessment of Interspecific Hybridization Between <i>Baptisia arachnifera</i> and <i>Baptisia lecontei</i>	34	Griggs, Tasha Negative Social Exchange, Sexual Communication & Attachment: Correlates of Social Function in Older Gay and Lesbian Adults	68	Palacios, Karen Hispanic/Latino Immigrants' Career Expectations for their Children	85	Velasco, Lidia La lleyenda de Yobi, el Zorro con Cinco Colas/ 천년여우 여우비 Emotion in Translation: A Humanistic study of Translation Korean to Spanish	15	Corona Rodriguez, Rodolfo An Analysis of Using Semantic Parsing for Speech Recognition
2:20	30	Frasier, Tuesday The Effect of Nutritional Stresses on Cortical Bone in New Zealand White Rabbits	42	Hughes, Kody Exploring the roles of the CETS gene family in cotton (<i>Gossypium hirsutum</i>) development	40	Herrera, Christa Is What My Therapist Doing Appropriate?	72	Pinales, Stephany Ethnic Differences in Parenting Styles and their Effects on Well-Being	1	Archibeque, Ben Equity in the IMPRESS Program	21	Diaz, Brian Extending a catalog of Quantum Modular forms to an infinite class
2:45		Break	46	Kennedy, Conner Air pollution-mediated alterations in CYP enzyme expression in the brains of young vs. aged C57Bl6 wild type mice		Break	74	Quarnstrom, Donya Does financial aid impact academic success at regional comprehensive universities in the U.S.: A Panel Data Approach		Break	29	Fernandez, Rolando Multimodal Communication in a Mobile Service Robot Utilizing Animated Lights

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Room		042		043		047		048		051
		Engineering & Physical Sciences		Biological Sciences		Social Sciences		Social Sciences		Humanities & Education
Time	ABS		ABS		ABS		ABS		ABS	
3:10	44	Jesse, Sean Potential Solution to Energy-related Problems		Break	41	Hudson, Keena Body Types Preferences: An Analysis of Apparel Designers' Identities		Break	4	Baldovinos, Diana Leadership Officers Roles: Overconfidence Effect
3:35	49	Long, Nicolas Characterization of Early Damage in Airframe Structures using Embedded Magnetostrictive Particles	50	Lopez, Miguel Hunger, Satiety, and Substrate Oxidation Responses to High Fat Meals a varying of Fatty Acid Composition	43	Hurtado, Richelle A Comparison of Phoneme Arrangements during Receptive Labeling Tasks	76	Ramsey, Erin A Study of Attachment and Mental Health; Mother, Father, and Sibling and Drepression, Anxiety and Distress Disclosure	39	Hernandez Farias, Dalia Teachers' Perception and Implementation of Tribal Education
4:00	86	Velasquez, Roxana Assessment of Phenology and Development of Methodology for Estimation of Fruit Production of Aguacatillo Trees in San Gerardo de Dota, Costa Rica	63	Navarro, Eric The effect of the early environment on learning across life stages in the South African clawed frog, <i>Xenopus laevis</i>	55	McCalidaine, Ella Intergenerational Patterns of Domestic Violence	77	Rodriguez, Lourdes Making a biased jury decision: Implicit factors associated with a guilty verdict for Steven Avery among the public	80	Rosas, Audel The International Sojourn and University Dynamics: A Cross-Cultural Perspective on International Student Development
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POSTER SESSION SCHEDULE

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16	Cowan, Landon Evaluation of a computer-based training package on novice instructors' implementation of discrete-trial and naturalistic instructional techniques	19	De Paz, Mayte DTEEL curriculum (Design Technology in elementary Engineering education for bilingual English Learners).	26	Elmore, Stephanie Determining the Depositional Setting of a Limestone Unit in Big Bend Ranch State Park, Texas
27	Espinoza, Jonathan Measuring Compassion On The Modern Campus	31	Galdamez, Michelle Caring For Our Own: A Study Of Hispanic Nursing Students At WTAMU	37	Hare, Daejha The Psychological Effects of Exergaming on Overweight Youth
38	Hernandez, Daniel The Availability of Equipment in Different Physical Therapy Clinics	45	Kaur, Harmanpreet A Novel Role for Agouti Gene in Stress Response in Mice	47	Kent, Jesse Transport of Sulfur, Oxygen, and Lithium Ions through Molecular Hydrogen Gas
48	Licon, Jonathan Circadian Rhythms Of The Gastrointestinal Tract	51	Luevano, Edgardo Comparison of pollinated vs. non-pollinated Malus domestica L. apples in orchards within the tropical cloud forest of San Gerardo de Dota, Costa Rica	52	Maldonado, Adrian Synthesis of Mechanism Based Inhibitors of Parasitic Nematodes (Helminthes)
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81	Ross, Kyler Personality Traits Across Multiple Tasks	83	Swanson, Shalonda Nigerian School Girls Influenced by Level of Education	88	Wagner, Courtney Sexual Assault and Dating Violence Survey on a Rural College Campus Setting

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ABSTRACTS (ORAL)

Archibeque, Ben

Equity in the IMPRESS Program

Donald Saucier, Ph.D.

Physics Education

Kansas State University

Abstract: 1

Room: 51

Time: 2:20

We are interested in how student groups' minority composition affect how equitable their discourse is. We follow several case study groups, chosen to have a broad range of students, to operationalize how discourse may be equitable. We look for moments when individuals are included or excluded and how the prevalence of those moments can create a more or less equitable environment during activities. We compare these qualitative measures of equity with quantitative measures of who speaks when. We found that when white men are in a group they tend to marginalize other group members. The groups for our case study came from the IMPRESS program, which is a two week, pre-college program that prepares first generation and deaf/hard-of-hearing students to major in a STEM field. In this program, students focus on improving their metacognitive skills and cultural preparation for college life within a context of model building and climate change.

Arroyo, Raul

Response of Weed Roots to the Cellulose Biosynthesis Inhibitor Herbicide Indaziflam (Alion)

Karen Sanguinet

Field Crop Management with a minor in Horticulture

Washington State University

Abstract: 2

Room: 52

Time: 10:00

Weeds are plants whose undesirable qualities outweigh their good points. Weeds are troublesome in many ways. Primarily, they reduce crop yield by competing for water, light, soil nutrients, and space. Due to this competition with crop plants, weeds need to be managed in order to obtain the most out of a given amount of land. In this particular research, Alion—a cellulose biosynthesis inhibitor will be applied in different concentrations to weeds because not all plants display the same tolerance to commonly-used herbicides. This method will allow further investigation of the differential dose response of hexaploid wheat and its related weeds to the commonly used Alion herbicide. The data obtained will help wheat growers devise a way to control weeds without damaging their crops. This could be a way to help wheat growers save money on expensive chemicals, as well as increasing wheat production and profits.

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Baldovinos, Diana
Leadership Officers Roles: Overconfidence Effect
Adesope Olusola
International Business & Psychology
Washington State University

Abstract: 4
Room: 51
Time: 3:10

Overconfidence, applies when one overestimates the risk of dying in the coming year, yet, believe that oneself is less at risk of death compare to the rest of our peers (Moore, Healy, 2007) as an example. In surveys, 84 percent of Frenchmen estimate that they are above-average (Dobelli, 2013). What is the significance of overconfidence? Past studies have found high risk in severe consequences tend to arise with being overconfident (Kennedy, et al.,) and yet people tend to display overconfidence across many spheres (Dunning, 2005). Leaders and people of high power have a higher influence on overconfidence. Studies discovered high correlation amongst people who uphold a high power position tend to be overconfident. This study will apply the theoretical frame work of the overconfidence effect. Essentially this theory will asset in examining participants overconfidence by measuring where they lie on a scale, which is the purpose of this study. Participants are college students who are presidential leaders for club organizations. The surveys will be conducted for presidents involved in organizations such as ASWSU, MECHA, Hawaiian club and other small and large population size of organizations. Overconfident individuals attained higher status, whether their confidence was justified—correct by actual ability or not (Anderson, et al., 2012). As a result, how do these presidential leaders scale in the overconfidence effect influence the organization?

Barrera, Maribel
Solubility of sorbic acid in organic mono-solvents: calculation of Abraham model solute descriptors from measured solubility data
William E. Acree, Ph.D.
Chemistry
University of North Texas

Abstract: 5
Room: 43
Time: 10:00

Experimental mole fraction solubilities are reported for sorbic acid dissolved in methanol, ethanol, 1-propanol, 1-butanol, 1-pentanol, 1-hexanol, 2-propanol, 2-methyl-2-propanol, 2-pentanol, diisopropyl ether, methyl tert-butyl ether, tetrahydrofuran and 1,4-dioxane at 298.15 K. Results of the experimental measurements, combined with a published water-to-octanol partition coefficient and published solubility data for sorbic dissolved in acetone, ethyl acetate and acetonitrile, were used to calculate Abraham model solute descriptors for the sorbic acid monomer. The calculated solute descriptors were found to describe the measured solubility and partition coefficient data to within 0.10 log units. The calculated solute descriptors can be used to predict sorbic acid solubilities at 298.15 K in additional organic solvents in which sorbic acid is expected to exist predominately in monomeric form.

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Bazaldua, Jaclyn

The Antibacterial Activity of Organotins and Organometallics

Dr. Michael Roner

Biology & Microbiology

University of Texas at Arlington

Abstract: 6

Room: 43

Time: 10:25

The latest significant antibiotic was developed three decades ago. Novel research fields have begun to combat bacterial antibiotic resistance by looking for antibiotics that are from unfamiliar fields. Eleven synthetic compounds were tested to combat the lack of antibiotics: two organotins, chelidonic acid and salicylic acid, two salicylic organotin polymers, and seven poly(ethylene glycols) (PEG) titanocene organometallic polymers. Organotins and organometallics have been proven to cause zones of inhibition, but the reasons are unclear. By using a broth microdilution assay along with a disk diffusion assay, the compounds were tested against ten different bacteria, eight of which were gram-negative. The assays were tested with a number of different concentrations per compound, giving more in depth results. The highest inhibition of bacteria during the microdilution assay was the salicylic organotin compound at a concentration of 1 mg/ml, while the remaining compounds inhibited the most growth at 0.01 mg/ml. In the disk diffusion assay the largest zone of inhibition achieved as 0.1 cm by an organometallic polymer, while some bacteria were unaffected by the compounds altogether.

Beans, Nekkita

Exploring Instigators of General Anxiety in African American Emerging Adults

Dr. Javier Boyas

Social Work

University of Mississippi

Abstract: 7

Room: 47

Time: 10:00

Emerging adulthood is a life developmental stage characterized by a youth's exit from the constrictions of adolescence, without full immersion into the roles and responsibilities that accompany adulthood. Decisions made during emerging adulthood can have long-term effects on one's life. For African Americans, emerging adulthood is difficult to navigate due to cultural constraints and can lead to the development of General Anxiety Disorder. Using a population-based sample from the Integrated Health Interview Series (IHIS) public database, the current study examined what everyday life factors influence the presence of general anxiety. Pearson's r correlation results suggest that neighborhood cohesion, parental cohabitation, and socioeconomic status affect the reported anxiety levels of African Americans during emerging adulthood. These areas should be taken into account when policymakers and health practitioners consider the importance of these factors for the well-being of emerging adults; especially relevant in areas where services are lacking.

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Burt, Meagan

"Between Public and Private": Tunisia's LGBT NGOs

John Ishiyama, Ph.D.

Political Science

University of North Texas

Abstract: 9

Room: 47

Time: 10:25

The Tunisian Revolution brought a sharp increase in the number of NGOs in the country, as well as a plethora of new rights which were unprecedented during the reign of former leader Ben Ali. Among these new organizations were those which specialized in progressing LGBT rights. The current laws in Tunisia, established during the French protectorate era, criminalize homosexuality and vaguely worded disgraces to public dignity. The revolution has allowed these organizations to exist and politically oppose these laws, yet the actual allowances made by the government represent a convoluted legal relationship, and LGBT Tunisians still experience harassment, arrests, and intrusive anal examinations. This study compares three LGBT NGOs - Damj, Mawjoudin, and Without Restrictions - through interviews of their leadership, revealing stark differences in strategy and the types of activism employed while contextualizing experiential similarities through the literature surrounding Arab sexuality, colonialism, and post-'Arab Spring' sexual liberation. The study also explores the complex political relationship between these NGOs - which technically support illegal activities - and government institutions. Findings included a continued dichotomy between the public and private spheres reflected in the organizations, contrary to the current speculative literature on the subject, consistently hesitant and weary relationships with the government, as well as concluding that these organizations - while showing promise of cooperation in the future - retain entirely separate strategies for their activism, with no signs of merging into a larger unit.

Calvillo, Joana

The Moderation Effect of Cultural Orientation on Attachment and Death Attitudes

Chiachih D.C. Wang, Ph.D.

Psychology

University of North Texas

Abstract: 10

Room: 47

Time: 10:50

This study examined the potential moderating effect of independent cultural orientation on attachment insecurity and death attitudes in a sample of 682 college students from a large southwestern public university. In addition, we hypothesized that there would be a significant gender difference. The three-step hierarchical multiple regression analyses were conducted and data was analyzed separately by male and female. Results supported the hypothesized moderator effect for women only. Specifically, findings showed that females with high attachment anxiety and avoidance will experience more positive death attitudes if they also endorse high independent self construal. The moderation effect was not significant for men. Implication, limitations, and future research directions will be discussed from the perspective of cultural orientation, gender difference, and attachment theory.

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Cardwell, Tristen
Essential Indexicality and Self-Consciousness
Dr. Kenneth Williford
English/Philosophy
University of Texas at Arlington

Abstract: 11
Room: 51
Time: 10:00

The problem of the essential indexical and that of irreducibly de se attitudes are considered key issues for the understanding of what it means to speak about and think about oneself. The main claim argued for within the Perry-Lewis tradition is that the kinds of beliefs and sentences required for knowingly speaking of and thinking about oneself necessarily contain indexical elements. If any beliefs or sentences involving definite descriptions or non-indexical singular terms that refer to oneself are to be known to convey information about oneself, they must ultimately link up with the kinds of propositions that involve some sort of essentially indexical or irreducibly de se content. While this idea has been widely accepted in many areas of philosophy and in linguistics, it has of late been challenged as a mere intuition with no supporting evidence. I respond by defending essential indexicality indirectly, mounting arguments extrapolated from two bodies of work associated with the Perry-Lewis tradition: Stephen Wechsler's semantics of first and second person pronouns and James Higginbotham's semantics of certain PRO constructions. I go on to show that these approaches to essential indexicality can be grounded in an independently motivated self-representational theory of consciousness.

Carrillo, Dominic
Creation of a Perfect Hockey Bracket: Use of Matrices to Depict the Outcome of the Stanley Cup
Dr. Angela Brown
Math/ Computer Science
Sul Ross State University

Abstract: 12
Room: 52
Time: 1:30

There is an understanding that someone can create a formula from a team's' statistical data to generate a perfect bracket. This is done for many sports such as baseball, football, soccer, and basketball. The method of using a win-to-loss ratio can be unreliable because of many unknown variables. In this research we will reproduce what sports analysts have done and introduce it into the National Hockey League (NHL). By gathering data and entering it into a matrix to generate a ranking system, we will theoretically be able to produce the perfect bracket of the Stanley Cup winners for 2016. We will utilize the Colley method to manipulate matrices to rank teams by reducing a matrix into reduced echelon form thus producing the ranks of each team. In this method we will created a point system which the win-to-lose ratio and the number of times each team played each other coincides to each other. To add different varying results, in attempt to improve on the bracket, we will introduce point differentials by multiplying by or adding to the point system in the Colley method. From the data collection we will deduce who is the future Stanley Cup Champion.

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Clymer, Robin

Hermite Polynomials within the Edgeworth Expansion

Dr. Carl Rutledge

Medical Physics

East Central University

Abstract: 14

Room: 43

Time: 10:50

We investigate the n-dimensional Hermite polynomials. Beginning with the general multivariate normal, we will build the most general Hermite Polynomials. This process starts by taking partial derivatives. Once we have taken partial derivatives, we are able to define the Hermite polynomials. Then, we are able to calculate for different values of n. If we take n partial derivatives, we then get one entry for an n-tensor. We examine multiple properties of the polynomials, such as their orthogonality and symmetry. Finally, we restrict the Hermite polynomials to one-dimension. With the assumption of mean zero and standard deviation one, we recover the traditional Hermite Polynomials.

Corona Rodriguez, Rodolfo

An Analysis of Using Semantic Parsing for Speech Recognition

Raymond Mooney

Computer Science

University of Texas at Austin

Abstract: 15

Room: 52

Time: 1:55

This work explores the use of semantic parsing for improving speech recognition performance. Specifically, it explores how a semantic parser may be used in order to re-rank the n-best hypothesis list generated by an automatic speech recognition system. We also explore how system performance is affected when retraining the system's acoustic model using a portion of the re-ranked data.

Croom, Justin

An Overview of Antihydrogen Physics

Carlos Ordonez, Ph.D.

Physics & Mathematics

University of North Texas

Abstract: 17

Room: 42

Time: 1:55

Antimatter has held a long enigmatic grip on the physics community ever since the existence of antiparticles was first proposed by Dirac in 1928. All matter has an antimatter counterpart (e.g. the antimatter counterpart to the proton is the antiproton, which has identical mass but opposite charge). As of today, physicists are studying the simplest antiatom we can make in the laboratory. This was somewhat prosaically denominated antihydrogen. Antihydrogen consists of two particles, namely the positron (i.e. the antielectron) and the antiproton. At the AD facility at CERN, physicists are able to create antihydrogen in the lab from various means to investigate its fundamental properties. One of the major inquires is determining the gravitational acceleration of antihydrogen. Currently there is no evidence for the direction of the acceleration of antihydrogen in the Earth's gravitational field.

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Culver, Steven

Use of an Xbox Kinect™ as a 3D Scanner for the Manufacturing of Custom Orthotic Insoles

Stephen Weis, Ph.D.

Mechanical Engineering

Texas Christian University

Abstract: 18

Room: 42

Time: 10:00

This report examines the function, accuracy, and ease of use of an XBOX Kinect™ as a 3D surface scanner. The purpose of this experiment is to demonstrate the utility of a Kinect™ for XBOX 360 (Microsoft®) paired with Skanect (Occipital) and MeshLab software packages as a low cost solution to surface scanning and processing. The conclusion is that the Kinect™ is able to accurately model the recorded point cloud as a continuous 3D surface that matches the contour and scale of the test subject surface. Both Skanect and MeshLab effectively interpolated the smoothing of the 3D surfaces and provided higher resolution imaging than an unaltered image. The resultant resolution of the contoured surface is higher than the resolution of the 3D printers used in this experiment, demonstrating an effective digital duplication of a physical surface.

Delwel, Isabel

Streptomyces griseus bacteriophage OlympicHelado: Discovery and Comparison

Lee Hughes, Ph.D.

Biology

University of North Texas

Abstract: 20

Room: 43

Time: 11:15

Bacteriophage are viruses which infect bacteria. The isolation of bacteriophage (phage) and its subsequent study is imperative for the furthering of genomic sequencing and phage therapy. Under the direction of Dr. Hughes, the phage OlympicHelado was isolated from soil collected in Brooklyn, NY, using *Streptomyces griseus* as the host bacterium. After isolation, this phage was sent for genome sequencing at the University of Pittsburgh. Then, upon receiving the analysis results, a course-based bioinformatics program was used to confirm annotations. Using the compiled data collected from OlympicHelado, a comparative analysis was performed against phage Rima, a phage isolated from the same soil sample using *Streptomyces azureus* as the host bacterium.

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Diaz, Brian

Extending a catalog of Quantum Modular forms to an infinite class

Dr. Jason Shaw

Mathematics

St. Mary's University

Abstract: 21

Room: 52

Time: 2:20

Quantum modular forms, which are particular complex-valued functions with interesting "modular"-like properties, have fascinated mathematicians since their discovery by Don Zagier in 2010. In 2016, Folsom, Garthwaite, Kang, Swisher, and Treneer gave a catalog of explicit examples of quantum modular forms, in this case arising from mock modular forms which have eta-theta function shadows. In this paper, we will introduce a generalization of their functions, and show explicitly that this generalization is a quantum modular form as well.

Dickerson, Jake

A Musical Day in the Neighborhood: Studying the Music of Fred Rogers

Mark Reighard, DMA

Music Composition

Southern Nazarene University

Abstract: 22

Room: 51

Time: 10:25

American children of the twentieth century grew up with television as the core of their cultural existence. During this time, Mister Rogers' Neighborhood was at the forefront of children's television programming. The work and music of Fred Rogers played an important role in the growth and evolution of The Public Broadcasting Station (PBS). Even though Mister Rogers became an institution in American culture, still, many people are unaware of Rogers' musical talents. Throughout his career he wrote nearly 300 songs that contain a remarkable use of musical devices with lyrics that thrive upon his message, "I like you, just the way you are." This study examines Rogers' works using various methods of analysis in order to reveal his masterful use of composition techniques and tremendous gift for melody. This presentation includes examinations of the songs: "Won't You Be My Neighbor", "Speedy Delivery", "It's Such a Good Feeling", and "It's You I Like".

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Earland, Dominique

Anemia in Pregnancy in Western Jamaica

Dr. Sheri Kunovich

Biology

Southern Methodist University

Abstract: 23

Room: 43

Time: 11:40

Anemia is one of the most prevalent complications related to pregnancy. In the context of global health, it is a leading maternal healthcare dilemma impacting both rich and poor countries. The Jamaican Western Regional Health Authority implements measures to reduce the prevalence of anemia in pregnancy, but in 2011, 29.9 % of all pregnant mothers were still diagnosed as anemic. Clinically, anemia is any hemoglobin below 10.5 g/dL regardless of age, while the World Health Organization (WHO) recommends maintaining hemoglobin levels above 11.0 g/dL during pregnancy. This study was carried out to determine the prevalence and predictors of anemia among pregnant women attending antenatal care clinics in Western Jamaica. A cross-sectional study was conducted in 200 women attending post-natal care at clinics in the four parishes of Western Jamaica under the Western Regional Health Authority namely, St. James, Westmoreland, Hanover and Trelawney. A questionnaire was administered to post-natal mothers and a clinical patient data abstraction tool was used to collect the information. The western region of Jamaica had a higher prevalence of anemia in pregnancy than the national average. Age, hand hygiene, and a history of anemia were predictors of anemia in pregnancy. Based on the results, we recommend pregnant women should follow WHO and Jamaican Western Regional Health Authority recommendations of practicing healthy hand washing and notify health care professionals of previous history of anemia in pregnancy.

Earland, Noah

Investigating peroxiredoxin impact on the intersect of constitutive AMP production and aging in drosophila

Dr. William C. Orr & Dr. Svetlana Radyuk

Biology; Minor in Biomedical Anthropology

Southern Methodist University

Abstract: 24

Room: 43

Time: 1:30

The Orr-Radyuk lab is interested in understanding the underlying genetic influences controlling the enzymes involved in the reducing and oxidizing (redox) reactions inside the cell. It is known that the sum total of these reactions comprise the cells redox state, and that certain enzymatic processes can be activated or inactivated when they are oxidized or reduced. Peroxiredoxins (Prx) are a thiol-dependent peroxidase family of enzymes which convert hydrogen peroxide generated inside the cell into water, and can also interact with the IMD inflammatory pathway which converges on a transcription factor, called Relish (the NF- κ B homologue), leading to an increase in antimicrobial peptide (AMP) production. This increase in AMPs is associated with late stage aging and death in drosophila.

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Ellison, Ashley

Addressing the Gaps in Services and Supports a Regional Comprehensive University Offers for Students Who Have Experienced Trauma

Susan Ruby, Ph.D.

School Psychology

Eastern Washington University

Abstract: 25

Room: 47

Time: 11:15

Trauma can be understood as any event that is physically or emotionally harmful or is life threatening. Prolonged trauma has been determined to have lasting adverse effects on an individual's mental and physical health. Several studies, such as in the Kaiser Permanente's CDC study, have shown the influence of trauma on the lifespan and mental and physical health of an adult. Adverse Childhood Experiences (ACEs) include but are not limited to, five personal traumatic experiences: personal abuse, verbal abuse, sexual abuse, physical neglect and emotional abuse. ACEs also include five traumatic experiences involving family members: alcoholic parent, mother is a victim of domestic violence, family member in jail, family diagnosed with mental illness, disappearance of a parent through divorce, death, or abandonment. Scholars note a lack of support in higher education services for college students experiencing trauma. A majority of the research on trauma and ACEs has focused on the k-12 public school system. As such, for my study I plan to assess the need for trauma based services in higher education by investigating the prevalence of students at a comprehensive regional university reporting a significant level of trauma exposure. I will also investigate what services and supports a comprehensive regional university offers to students who experienced trauma. I plan to administer ACEs and a Resilience survey to students in general requirement courses. I will invite those who score above a five on the surveys to join a focus group to better understand their perception of trauma informed practices in higher education. I expect to find a gap in mental health services around trauma and will make recommendations for the purpose of improving services within post-secondary institutions.

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Farnell, Jeremy

Memento Mori: The Relationship Between Defensive Theology and Memory Recall

Ron Wright, Ph.D.

Nursing

Southern Nazarene University

Abstract: 28

Room: 47

Time: 11:40

Previous research displaying the effect of mortality salience on memory recall has not been fully conclusive, but some researchers do suggest that mortality salience plays a role in memory recall (Hart & Burns, 2012). There is a gap in the literature surrounding terror management theory (Pyszczynski, Solomon, & Greenberg, 1999) as it relates to defensive theology, theology used as an existential defense, in the area of memory recall. It was hypothesized that participants low in defensive theology would recall more words from a mortality salient vignette than those high in defensive theology. Participants were 58 adults sampled from community colleges and Baptist churches located in the Southwest region of the United States and included 33 females (57%) and 25 males (43%). The age range of the participants was 18-54 with a mean age of 23.28 while the ethnic makeup of the sample was predominantly Caucasian (86.7%). Participants filled out the Defensive Theology Scale and demographic questions before being randomly assigned to the experimental or control condition. Participants in the experimental condition were given a vignette related to a hopeless situation where they were asked to rate 30 items in terms of their usefulness for committing suicide and then tested for memory recall of those items. Results suggest that participants who scored low in defensive theology recalled more words in the experimental condition than participants who scored high in defensive theology. The results are discussed in terms of the effect of existential defenses on memory recall in a suicide vignette.

Fernandez, Rolando

Multimodal Communication in a Mobile Service Robot Utilizing Animated Lights

Peter Stone

Computer Science

University of Texas at Austin

Abstract: 29

Room: 52

Time: 2:45

In this study we describe a multimodal communication system for mobile service robots utilizing animated light emitting diode strips. It is designed to assist in the communication between mobile robots and nearby humans, by utilizing LED animations in combination with speech and text messages to make humans aware of the navigational state of the mobile robot. The light emitting diode based multimodal communication system expands upon the existing Building-Wide Intelligence autonomous robotic platform, which only communicates through text messages and is capable of autonomous navigation, localization, and planning. By expressing the navigational state of our mobile robots we seek to improve their performance by reducing the amount of time it takes for the humans in the environment to provide assistance to the robots. As a result our mobile robots will then be able to travel more efficiently throughout our building when performing tasks.

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Frasier, Tuesday

The Effect of Nutritional Stresses on Cortical Bone in New Zealand White Rabbits

Marta Alfonso-Durruty, Ph.D.

Anthropology

Kansas State University

Abstract: 30

Room: 42

Time: 2:20

The purpose of this study is to determine whether cortical thickness can provide insight into how past populations interacted with their environments based on the data collected from New Zealand White (NZW) rabbits exposed to nutritional stress. The left humerus and femur of 45 NZW were used to determine how levels of nutritional stress affect cortical bone. This study used a control group, an Experimental Group 1 (E-1), and an Experimental Group 2 (E-2). The control group was fed normally, while Experimental 1 was chronically undernourished, and Experimental 2 was periodically fasted. The bones were CT scanned at the K-State Veterinary Health Center, and total lengths were found using 3D Slicer. Measurements of the cortical bone were taken from the anterior at forty percent total length. The findings of this study were only preliminary, but our findings so far suggest that there is no difference in cortical thickness between groups. The proper statistical test will need to be applied, and further measurements to account for error.

Garza, Stormie

Study of a Lightweight Lower Extremity Exoskeleton for Rehabilitative Gait

Vijay Vaidyanathan, Ph.D.

Biomedical Engineering

University of North Texas

Abstract: 32

Room: 42

Time: 10:25

Knee osteoarthritis is a common cause of disability in people over 65, including symptoms such as decreasing movement ability, instability, and pain. The purpose of this research is to create a lightweight and durable lower extremity exoskeleton that is comfortable for senior citizens suffering from knee OA. We propose a passive, lower extremity exoskeleton composed of a system of mechanical components that closely model human gait kinematics in order to provide necessary compensatory power and stability for elderly patients. Given the needs of the patient, the interfacing between device and human patient is focused on comfort. The materials under investigation include titanium and aluminum for the lateral supports, along with elastic and neoprene for interfacing. The elastic straps provide a simple device mounting mechanism, while the neoprene establishes a comfortable fit onto the body around the waist and upper leg, without impeding on range of motion.

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Grant, Meliah

The Effects of Prosthetic Tactile Feedback on Persons Who Stutter

Dr. Gregory Snyder

Communicative Sciences and Disorders

University of Mississippi

Abstract: 33

Room: 47

Time: 1:30

Vibrotactile speech feedback has been documented to enhance fluency in adults who stutter. Researchers at the University of Mississippi have applied these findings to developing a prosthetic device that captures the speech signal of the speaker, converts this signal into tactile stimulation, and administers vibratory speech feedback to the speaker through a tactile stimulator. This patented device has been tested with a hand-held tactile stimulator, and documented comparable fluency enhancement to that of other speech signal prosthetic devices. The purpose of the present study is to collect pilot data measuring fluency enhancement as a function of bodily location of tactile stimulation so that the tactile prosthetic device can be configured to increase wear ability and improve user experience.

Five adults who stutter (AWS) ranging from 18 to 33 years of age were prompted to read various ~300 syllable passages under four different conditions, including a no stimulation control speaking condition, and experimental speaking conditions that stimulated the hand, dominant wrist, and dominant foot. While results indicated significant fluency enhancement, no one experimental condition (or body location) performed significantly better than the other. Prosthetic implementation and future applications of the device are discussed.

Griggs, Tosha

Negative Social Exchange, Sexual Communication & Attachment: Correlates of Social Function in Older Gay and Lesbian Adults

Mark Vosvick, Ph.D.

Psychology

University of North Texas

Abstract: 34

Room: 47

Time: 1:55

This study provides insight into how negative social exchange, sexual communication and anxious attachment are associated with social function in older gay men and lesbians. Through a minority stress (Meyer, 2003) lens, we hypothesize negative social exchange and anxious attachment are negatively associated with social function and sexual communication is positively associated with social function. An hierarchical regression analysis ($F [10,89]=9.25, p<.001$) indicated that, in addition to negative social exchange ($\beta=-.23, p<.05$) and anxious attachment ($\beta= -.18, p<.05$), being single ($\beta= -.56, p<.001$) was a significant predictor, with our model accounting for approximately 46% of the variance in social function (adjusted $R^2=.46, p<.001$) in our sample of 100 LG adults aged 50 and over. Since social function is correlated with better health for older LG adults (Rendall et al., 2011) and because older gay men and lesbians face unique threats due to sexual minority status, therapeutic priorities should strengthen relationships and seek positive social exchanges, while addressing challenges of single older gay men and lesbians.

- Discover new ideas
 - Create new knowledge
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Gutierrez, Saul

Comparison of LabVIEW Machine Learning Algorithms for Optimizing Grasping Patterns of a Mechanical Hand

Dr. Panayiotis (Panos) Shiakolas
Computer Science & Engineering
University of Texas at Arlington

Abstract: 35

Room: 42

Time: 10:50

There is a need to understand, implement and apply Machine Learning (ML). LabVIEW provides a ML Toolkit which contains Supervised ML algorithms: Artificial Neural Networks, K-Nearest Neighbor, Learning Vector Quantization, and Support Vector Machines. In this research, grasping patterns for an artificial hand were investigated using information gathered from Flexor and Force sensors. The research question, which of the ML algorithms most accurately classifies whether or not an object is spherical or cylindrical, was investigated. The algorithms were empirically analyzed for their implementation simplicity and their classification effectiveness. Data was gathered with a haptic glove using various grasp standardizations and used to evaluate and investigate which algorithm would provide the most optimal classification accuracy. Using a method of gathering data that most accurately represents the limitations of the prosthetic hand, Support Vector Machines was chosen as the best ML algorithm for this application with an average accuracy of classification ability of 97%. With the aim of optimally estimating the diameter of the object, Artificial Neural Networks were employed and were able to estimate the diameter of 95.4% of the objects presented with less than 15.42% error in diameter with mean of 5.88 and a standard deviation of 4.77.

Hankins, Kayla

The Molecular Assessment of Interspecific Hybridization Between *Baptisia arachnifera* and *Baptisia lecontei*

Dr. Chris Randle
Biology
Sam Houston State University

Abstract: 36

Room: 43

Time: 1:55

The primary objective of this project is to assess directly the hypothesis of hybridization between two, closely related, putative parental species *Baptisia arachnifera* and the endangered *Baptisia lecontei*. This objective will be met via a two-step process. Firstly, we will identify markers that exhibit unambiguous differences between the parental species. Then, we will use these markers to assess additivity and directionality of hybridization in the putative hybrids. If our hypothesis is correct, putative hybrids should exhibit variation specific to both parental species in designated nuclear markers, and should additionally exhibit chloroplast sequence variation restricted to just one parent, which will then be identified as the maternal donor. The significance of our results will contribute to the understanding of hybridization within the genus *Baptisia* which is known for its extensive natural hybridization as well as address potential problems within ex situ populations of endangered species. Finding molecular markers that could unambiguously identify variation within these individuals could shed light upon problems of maintaining the genetic integrity of ex situ populations particularly for the population of *Baptisia lecontei* housed at the Lake Louise Biological Field Station in Valdosta, Georgia.

- Discover new ideas
 - Create new knowledge
 - Share your wisdom

Hernandez Farias, Dalia

Teachers' Perception and Implementation of Tribal Education

Brenda Barrio

English and History Education

Washington State University

Abstract: 39

Room: 51

Time: 3:35

With the passing of a recent legislative bill in a state in the Pacific Northwest, the implementation of Native American curriculum in all public schools has shifted from encouraged to required. This shift has brought a large change in the preparation of pre-service and in-service teachers in K-12 education, as they need more information on how to integrate this curriculum into their teaching. The legislative bill outlines that school districts shall be encouraged to work with a federally recognized tribe and incorporate tribal education in their social studies curricula. Therefore, the purpose of this research study is intended to explore three areas regarding the implementation of the Native American curriculum: (1) secondary education teachers' perceptions and concerns; (2) the resources and training gathered; (3) and how these resources are or will be incorporated in their curriculum. This research is viewed through a culturally responsive theoretical framework lens in order to draw from different teachers' strategies to effectively implement Native American curriculum. Moreover, this research will serve as information to better understand the necessary support pre-service and in-service teachers need to effectively and appropriately implement Native American curriculum in K-12 classroom curriculum at this state and beyond.

Herrera, Christa

Is What My Therapist Doing Appropriate?

Jennifer Callahan, Ph.D.

Psychology

St. Mary's University

Abstract: 40

Room: 47

Time: 2:20

Professional boundaries are expected and accepted rules that a therapist implements for the client's wellbeing and therapy effectiveness. Boundary issues, specifically boundary crossings and boundary violations, can either disrupt the safeguards in place to protect the client and jeopardize therapy effectiveness or strengthen the therapeutic relationship, as they are dependent on context. The purpose of this study is to assess laypersons' awareness of therapist-client boundary crossings and violations through the construction of the Psychotherapy Assessment Test (PAT), a methodology which requires judgements of appropriate or inappropriate therapist conduct in a series of scenes of psychotherapy depicted in popular movies. The scenes that constituted the PAT consisted of therapist-initiated boundary issues that involved issues related to touch, self-disclosure, dual relationships, confidentiality safeguards, and out-of-office contact. Undergraduate students judged the appropriateness of 10 scenes of therapist-client psychotherapy interactions and provided rationale for their judgment. Results showed that participants were able to identify the inappropriateness of touch intervention and dual-relationship, but unable to identify the appropriateness or inappropriateness of the other boundary issues. Conclusions were drawn that the general public is unaware of boundary issues that can compromise the effectiveness of psychotherapy and can lead to client harm.

- Discover new ideas
 - Create new knowledge
 - Share your wisdom

Hudson, Keena

Body Types Preferences: An Analysis of Apparel Designers' Identities

Deborah Christel

Apparel Merchandising Design and Textiles

Washington State University

Abstract: 41

Room: 47

Time: 3:10

In the fashion industry plus size consumers have been marginalized and treated as a niche market when in fact, the majority of American women are plus size. There is a general assumption that individuals in fashion have a greater interest in aesthetics than others. These individuals typically illustrate social physique anxiety (SPA). Among design students the correlation between SPA and bias towards plus size consumers has not been done. Thus, a gap of knowledge as to why the thin body type is preferred remains. If design students have SPA, it is hypothesized they would prefer to design for a thin body over a plus size body. Research methods used in the project include online surveys that determine the student's self-efficacy and their weight biases. This research is an important stepping stone in exploring the role of SPA in fashion, and how educational models help resolve the problem that plus size women often face. Most importantly the purpose of this research is to encourage others to take action towards equality for all body types because regardless of what shape, size or weight, all humans should have equal access to clothing.

Hughes, Kody

Exploring the roles of the CETS gene family in cotton (*Gossypium hirsutum*) development

Roisin McGarryk, Ph.D.

Biochemistry

University of North Texas

Abstract: 42

Room: 43

Time: 2:20

The CETS (CENTRORADIALIS / TERMINAL FLOWER 1 / SELF-PRUNING) gene family is shown to impact development in a broad spectrum of plants. We demonstrated that branching patterns in cotton (*Gossypium hirsutum*) are regulated by the activities of two CETS genes, SINGLE FLOWER TRUSS (SFT) and SELF-PRUNING (SP). The goal of this project is to explore the roles of the remaining CETS genes in regulating cotton architecture. As part of our analyses, we transiently manipulated expression of each CETS gene using virus induced gene silencing in ancestral and domesticated cotton varieties. Inoculated plants are monitored for phenotypes and these will be correlated with virus titer using immunoblotting. In a complementary effort, we will transiently over-express each CETS gene from a virus vector and examine infected plants for changes in branching patterns, timing of flowering, and yield. The results of these experiments may illuminate potential targets to optimize cotton agriculture for different regions.

- Discover new ideas
 - Create new knowledge
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Hurtado, Richelle

A Comparison of Phoneme Arrangements during Receptive Labeling Tasks

Karen Toussaint, Ph.D.

Psychology and Behavior Analysis

University of North Texas

Abstract: 43

Room: 47

Time: 3:35

A common curricular goal in early intervention programs for children with autism spectrum disorder (ASD) is learning new auditory-visual discriminations or receptive language. One component of any receptive language program is that the learner must discriminate between different auditory stimuli. However, previous research suggests that individuals with autism may have difficulty discriminating between auditory stimuli. Yet, little research has examined how auditory stimulus discriminability can affect the acquisition of auditory-visual conditional discrimination during receptive language tasks. The purpose of this study was to evaluate the effects of two different auditory stimulus or spoken word arrangements during a matching-to-sample task. We used an alternating treatment design and assigned one-syllable words into two instructional sets: target sets contained three one-syllable words with either similar onsets and dissimilar rimes or dissimilar onsets with similar rimes. Results suggest that participants acquired auditory-visual conditional discriminations more efficiently when vocally-presented words had dissimilar or discrepant rimes.

Jesse, Sean

Potential Solution to Energy-related Problems

Dr. Robert Ferdinand

Physics

East Central University

Abstract: 44

Room: 42

Time: 3:10

This is currently an ongoing project that focuses on the collection and conversion of radio waves into usable electricity. A device that is crucial to this process was created (at relatively minimal costs) based upon a design derived from the works of Nikola Tesla, and has been tested with positive and relatively consistent results thus far.

Kennedy, Conner

Air pollution- mediated alterations in CYP enzyme expression in the brains of young vs. aged C57Bl6 wild type mice

Amie Lund, Ph.D.

Biochemistry

University of North Texas

Abstract: 46

Room: 43

Time: 2:45

CYP enzymes are commonly expressed in most tissues throughout the animal kingdom. Their function is to alter hazardous chemical species within the body into safer metabolites that can be excreted. For this study, the effects of air pollution are studied for the expression of CYP enzymes in order to determine any substantial damage to the coding, in addition to damage caused by hazardous chemical species that cannot be expelled safely.

- Discover new ideas
 - Create new knowledge
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Long, Nicolas

Characterization of Early Damage in Airframe Structures using Embedded Magnetostrictive Particles

Dr. Andrew Makeev
Mechanical Engineering
University of Texas at Arlington

Abstract: 49

Room: 42

Time: 3:35

Early stage material damage in critical airframe structures is not detectable with existing sensing techniques such as the ultrasonic pitch-catch or pulse-echo. These methods are only reliably for detection of macroscopic damage, such as large cracks or delamination and as such by the time macroscopic damage is detected most of the structural life might have been expended resulting in a high risk platform operation and/or unplanned downtime. Here in, an experimental study was conducted to investigate the viability of embedded magnetostrictive particles for detection of early stage structural damage in composite materials. Test specimens were fabricated from thirteen unidirectional plies of pre-preg carbon/epoxy material system with TD particles evenly spread in mid layer. The specimen were then subjected to cyclic fatigue loading while monitoring the change in the magnetic flux density using an induction coil. Acoustic emissions were captured simultaneously using two wide-band sensors mounted within the gage length of the specimen. Preliminary test results show that the embedded system exhibits a change in magnetic flux strength starting from the first few fatigue load cycles.

Lopez, Miguel

Hunger, Satiety, and Substrate Oxidation Responses to High Fat Meals a varying of Fatty Acid Composition

Jada Stevenson, Ph.D.
Nutritional Sciences - Coordinated Dietetics
Texas Christian University

Abstract: 50

Room: 43

Time: 3:35

There are many factors associated with obesity, including consuming a high-fat (HF) diet. The amount and type of dietary fatty acids (monounsaturated fatty acids, MUFAs; polyunsaturated fatty acids, PUFAs; saturated fatty acids, SFAs) in the diet give rise to physiological differences in terms of their effects on whole-body metabolism. Three normal weight, premenopausal women (BMI: 18.5-24.9kg/m²), aged 18-40 years, participated in a randomized, single-blind, crossover study in which they consumed three HF meals (70% of energy) rich in either MUFAs, PUFAs, or SFAs. No treatment differences were found for postprandial RER (MUFA: 0.82±0.01; PUFA: 0.81±0.01; SFA: 0.81±0.01) or for postprandial EE (MUFA: 16.54±0.58kcal; PUFA: 17.06±1.46 kcal; SFA: 16.57±0.67kcal). No treatment differences were found for postprandial fat oxidation 1.03±0.11, 1.11±0.09, and 1.10±0.09g or for carbohydrate oxidation 1.81±0.16g, 1.73±0.18g, and 1.63±0.09g following MUFA, PUFA, and SFA-rich HF meals, respectively. Although participants consumed HF meals ~30% of participants' total daily energy needs, we did not see significant differences between treatments, most likely due to the small sample size. In premenopausal, normal weight women, HF meals rich in either MUFAs, PUFAs, or SFAs did not differentially affect postprandial RER, EE, or substrate oxidation.

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Martinez, Claudia

Attitudes and Uses of the Spanish Language in the Dallas-Fort Worth Metroplex

Dr. Sonia Kania

Spanish

University of Texas at Arlington

Abstract: 53

Room: 51

Time: 10:50

In this study, 100 Hispanics in the Dallas Fort Worth Metroplex area were surveyed with the purpose of analyzing if the Spanish language is being lost in the third generation of speakers as the three-generation shift model suggests. The attitudes of Hispanics towards their native heritage language were examined. The data obtained suggests that Hispanics hold positive attitudes towards Spanish and desire that future generations learn to speak Spanish fluently. The uses of Spanish by Hispanics were reviewed according to their respective generation. It was found that the uses of Spanish decline drastically in the second generation in favor of English, which is faster than what it was expected. This suggests that if Spanish is rapidly being displaced by English in the second generation, only immigrants of the first generation maintain their native language in the United States. Thus, if Hispanics desire to preserve the Spanish language, the language should be transmitted from one generation to the next, and Spanish should be used in contexts outside the home. Additionally, formal instruction in Spanish would support the maintenance of the language.

McCalidaine, Ella

Intergenerational Patterns of Domestic Violence

Todd Hechtman, Ph.D.

Sociology

Eastern Washington University

Abstract: 55

Room: 47

Time: 4:00

Intimate Partner Violence has generated a vast quantity of research over the last several decades, resulting in an occasionally-conflicting array of findings. This article attempts to contribute to the existing literature by offering a case-study involving three generations of women within the same family line, who have experienced some form of intimate partner violence, child abuse, or both. This research is framed by institutional ethnography in order to justify the methodology, and includes ethnography and auto-ethnography of participants in order to draw from strong objectivity. Analysis is conducted utilizing feminist standpoint theory, so that insight is oriented from lived experiences rather than abstract, calculated analysis. Johnson's typology of domestic violence is utilized in order to distinguish the specific instances discussed across generations, and patterns of violence including negotiation of acceptable norms and transmission from parent to child are explored. Themes uncovered lead to the proposal of a concept referred to as the Gaze of Morality, which describes the pressure felt by both the enactor and receiver of intimate partner violence to deny or obscure the reality in order to conform to social expectations of behavior. Enactors of violence hide their behavior in order to avoid moral condemnation of engaging in patriarchal violence beyond acceptable levels of plausible deniability. Receivers of violence may negotiate levels of it in order to provide for their children when they perceive no other recourse, rather than risk condemnation from the gaze of morality for not selflessly providing for their children, regardless of the personal cost.

- Discover new ideas
 - Create new knowledge
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McGill, Jazmine

Black Students Matter: An Examination of the Intersectionality Within the Black College Experience

Dr. Michael Thompson

Sociology

University of North Texas

Abstract: 56

Room: 47

Time: 4:25

Far too often the needs of Black college students and other ethnic minorities are left unattended to or are addressed by inefficient and ineffective practices and policies whose underlying values are constructed from a White world view. We are educated in an environment that is built around the cultural preferences of Whites because of the system of ethnic stratification that exists in the United States. We have to start realistically addressing the fact that the cultural attitudes, preferences, practices, and needs of these two groups are often incompatible with one another (Obasi 2010). This study examines how ethnicity combines with other aspects of a Black college students' social identity to impact their perceptions of the college experience within a White context through the use of in depth interviews in a qualitative study. I will examine the commonalities and differences between the experiences of individuals that share common identity traits as well as by adapted acculturation strategy. It is my hope that this study leads to higher awareness of the sociodiversity in the Black community, and that it sheds light on the need for predominantly White institutions to institute policies and practices that effectively address our needs.

McNease, Georgi

Intervention Points for Post- Separation Sexual Assault

Dr. Brittany Hayes

Criminal Justice

Sam Houston State University

Abstract: 57

Room: 48

Time: 10:00

Despite extensive research on sexual assault and domestic violence, less is known about sexual assault post- separation. Post- separation sexual assault occurs when a perpetrator commits an act of sexual assault as a way to retaliate the end of a relationship. We will use secondary data from a study done by Dekeseredy which examined post- separation sexual assault in rural Ohio. We will also use the Clarke model to look at crime reducing techniques. The goal of this study is to identify intervention points for post- separation sexual assault. Intervention points can include both people and environmental factors.

- Discover new ideas
 - Create new knowledge
 - Share your wisdom

Melendez, Edith

Best practices for undocumented students in institutions of higher education: A qualitative study

Shanna Davis, Ph.D.

Psychology - School counseling- education

Eastern Washington University

Abstract: 58

Room: 48

Time: 10:25

Research studies show that 65,000 undocumented students graduate from high schools in the U.S. yearly. As defined by the National Immigration Law Center, an undocumented person is a foreign national who resides in the United States with fraudulent documents or entered without authorization. Every year hundreds of motivated students with high potential to succeed in an academic setting enroll into four-year university with hopes of becoming upwardly mobile and contributors to society. Compared to college students with authorization, they have added stress and pressures relating to overcoming financial, social, and educational challenges. Despite their obstacles and legal status, they persevere and achieve academic success along educational pipelines. However, many universities in Washington State lack support structures that provide social support, personal development, and academic services specifically tailored to college students without documentation, creating gaps in assisting undocumented students to prosper in the academy. To expand the understanding of how to better serve undocumented students, qualitative data was collected in the form of anonymous online surveys. Eleven participants identified themselves as an undocumented student enrolled at a regional university and participated in the K-12 public education for at least 5 years. Findings showed that the majority of undocumented students were dissatisfied with the academic support they have received, and that implementing a physical space or center with tailored services could improve their educational experience.

- Discover new ideas
 - Create new knowledge
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Molinar, Aja

The Effects of Cell Phone Interruptions on Students with Anxiety

Greg Meissen, Ph.D.

Psychology

Wichita State University

Abstract: 59

Room: 48

Time: 10:50

This study examines university students' perceptions of cell phone interruptions during face-to-face communication. Cell phone use has steadily increased over the years and has become a major facet of communication, especially for university students. However, daily cell phone use affects personal interactions. It is hypothesized that both female students and students who exhibit mild to severe anxiety are more likely to have negative perceptions of cell phone interruptions. As cultural variations between minority and majority groups play a role in communication, the perceptual differences between ethnic groups will also be analyzed. Participants enrolled at a university aged from 18 - 64 years old will participate in a 23-item survey used to gauge demographics, levels of anxiety, and perception toward cell phone interruptions. The survey is distributed to a maximum of 400 participants through the experiment participation system, SONA.

Moore, Cheyenne

Hypermasculinity, the sublime, and determinism in Mary Shelley's Frankenstein

Dr. Kandi Tayebi

English

Sam Houston State University

Abstract: 60

Room: 51

Time: 11:15

The following thesis provides analytical connections of Feminism, determinism, religious criticism, ecocriticism and sociological relativism within Mary Shelley's Frankenstein. The analysis begins by examining the biographical influence and relevance of British politics towards gender. Thus, there existed a hyper masculinized Romantic ideal within British society, culture, and literature. Shelley then offers criticism toward this ideal through her use of Promethean characteristics, aspects of sublime nature, and the lack of femininity. Shelley uses this foundation of faulted hypermasculinity to potentially criticize the Christian God and extends that criticism by posing the possibility of a deterministic universe. Victor's abandonment, neglect, and lack of responsibility as well as the negative perspective society views toward the creature and his actions create a predisposed deterministic environment for the creature and his actions. Therefore, with the philosophical presence of determinism in relation to the creature's lack of "Free will," the religious criticism of God is extended, questioning God's authority and the predisposed relationship between God and humanity.

- Discover new ideas
 - Create new knowledge
 - Share your wisdom

Moore, Everett

Spitting Game: The Intersection of Gender, Ethnicity, and Opening Gambits

Dr. Rick Bruhn

Psychology

Sam Houston State University

Abstract: 61

Room: 48

Time: 11:15

This study serves as an exploratory work investigating the relationship between demographic factors, primarily gender and ethnicity, on one's receptivity to different opening gambits on their willingness to date. Participants will be gathered through a university volunteer system and will be randomly assigned to one of three types of opening gambit conditions; innocuous, direct, or cute-flippant. The expected results, potential implications, and remaining stages of research completion are discussed.

Muniz, Fabiola

Underrepresentation of Female Morning Show Hosts: The Gap Between Men and Women in Radio

Bret Scott, MFA

Communication

Sul Ross State University

Abstract: 62

Room: 51

Time: 11:40

This research examines Monday-through-Friday morning shows in the Top-40 Station format in twenty-five cities in the United States, seeking to quantify the gap between male radio host and female radio host airtime in morning talk shows. Data that has been analyzed proves that a gap between male and female radio hosts exists, and shows that there are trends in the morning shows. A notable trend is the publicity of programs also indicates bias towards men over their female counterparts even the logo of the morning show shows how dominant one gender is over the other.

- Discover new ideas
 - Create new knowledge
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Navarro, Eric

The effect of the early environment on learning across life stages in the South African clawed frog, *Xenopus laevis*

Erica Crespi

Zoology

Washington State University

Abstract: 63

Room: 43

Time: 4:00

The environment experienced during early life stages when the brain is developing can affect behavior throughout life, including the ability to learn. We tested the hypothesis that experiencing a stressor during early development negatively affects associative learning in the South African clawed frog, *Xenopus laevis*. To do this, we will expose tadpoles to a cue at the time of feeding either with or without a predator cue to determine if this stressor impedes associative learning during this life history stage. We will also give individuals this cue after metamorphosis to determine whether they remember that this cue is associated with food availability with and without the presence of a stressor. If adverse environmental conditions disrupt associative learning pathways as well as memory, we predict that those with less stress will associate the food cue with feeding faster than those exposed to predator cues both as tadpoles and later as frogs. This finding will shed light on the importance of the early environment on later cognitive function in amphibians, but also could relate to similar phenomena in humans.

Noah, Emilie

Am I the Master of My Fate?

Anna Harper, Ph.D.

Psychology

Southern Nazarene University

Abstract: 65

Room: 48

Time: 11:40

This study examined the ways in which death-anxiety, self-efficacy, and state emotion act as implicit influencers on voter perceptions of charismatic, task-oriented, and relational leadership within the political context. Researchers hypothesized that death-anxiety would increase preference for a charismatic political candidate, and that self-efficacy would act as an implicit buffer against the stress of mortality salience. These hypotheses were not supported. Positive emotion was found to be strongly correlated with voter self-efficacy. Researchers also found that task-oriented candidate ratings were strongly correlated with voter efficacious beliefs. The possible influence of personality traits and religiousness on voter behavior is discussed.

- Discover new ideas
 - Create new knowledge
 - Share your wisdom

O'Neil, Hannah

Elementary Student Outcomes from an Intergenerational Experience

Gayle Doll, Ph.D.

Social Work

Kansas State University

Abstract: 67

Room: 48

Time: 1:30

This retrospective study discovered how intergenerational programs affect the children that participate later on in their life. This program is located in Coffeeyville, Kansas, and is comprised of a kindergarten classroom inside of a nursing home. An open-ended survey questionnaire was sent to parents of children that completed the program seven and eight years ago in order to see if the effects of the program followed the children into the later years of their elementary career. The study found that the parents viewed the program as an overall success for their child, their family, and the community. Children that were involved in this program proved to be less prejudiced toward older adults and more comfortable with them. Staff from the school district were also questioned and they stated an overall success in the program.

Palacios, Karen

Hispanic/Latino Immigrants' Career Expectations for their Children

Chardie Baird, Ph.D.

Sociology

Kansas State University

Abstract: 68

Room: 48

Time: 1:55

Despite an increase in the number of Hispanics/Latinos immigrating to the United States since the 1990's, the number pursuing higher education is not comparable to the White population. Research on the race/ethnic gap in college degrees tends to focus on the societal barriers to explain this problem. However, research on Salvadorians acculturation in Canada suggests that Hispanic/Latino parents experience immigrating and assimilating to this new country may have an important effect on how they guide their children. Through in-depth, semi-structured interviews, I examine how Hispanic/Latino immigrant parents make sense of their current and past work and education experiences and their expectations and aspirations for their children's future educational and occupational outcomes. I find that the Hispanic/Latino parents in my sample tend to have high expectations for their children because they view the educational system in the US as an improvement to the educational system of their country of birth. While first generation immigrants hope and encourage their children to attain higher education, in many subtle ways they communicate to their children that a more realistic goal may be to pursue immediate employment after high school.

- Discover new ideas
 - Create new knowledge
 - Share your wisdom

Pecina, David

Solar Heated Water Tank

Weihuan Zhao, Ph.D.

Mechanical Energy Engineering

University of North Texas

Abstract: 69

Room: 42

Time: 11:15

This study will look into the design of a SHW (solar heated water) tank which will be embedded with phase change material. By taking into consideration parameters such as the area's solar radiation, temperature, aspect ratio, and phase change material, the SHW storage tank will be built. The phase change material will allow the tank to retain the heat from the water gathered during daylight hours to utilize during non-daylight hour times. The maximum time the water can be held will be recorded as given by simulation work and calculations. The tank is part of an overall solar collector system which can take hot water and transfer it into heat which will heat the water. This has an application for showering or use in a household.

Pena, Alonso

Decolonizing Knowledge: Self-construction of Super Queeroes through Witnessing and Disidentification

Tushabe wa Tushabe, Ph.D.

English/ American Ethnic Studies

Kansas State University

Abstract: 70

Room: 51

Time: 1:30

Superheroes have epistemologically tied superpower to white male identification to negate and subjugate marginalized individuals. White male superhero identities are colonial and manifest violence against queer people of color and people who do not fit the rigid molds of identity created by colonialism. However, as a child I was able to imagine myself as super powerful to survive systemic oppression and negation. Because I am unwilling to forfeit this sense of imagination, I argue that to bear witness to my experiences and the experiences of other queer people of color, we must disidentify with superheroes and their attachment to white masculine strength and domination. Queer people of color who are negated and erased can imagine themselves as superQUEERoes as a method of transforming oppressive knowledge and relationships into ways erased and negated people can activate their own agency to embody change in themselves and their communities.

- Discover new ideas
 - Create new knowledge
 - Share your wisdom

Penton, Melissa

Investigation of the need for an expanded definition of the KIX domain in CBP/p300

Dr. Alisha Howard

Molecular Biology

East Central University

Abstract: 71

Room: 43

Time: 4:25

CBP/p300 is a highly conserved transcription coactivator used almost ubiquitously in eukaryotic organisms. In addition to transcribing the genetic material of the organism, CBP/p300 can also be recruited by viral DNA within the host. One such instance is the Human T-cell Leukemia/Lymphoma Virus, a retrovirus which recruits CBP/p300 using both cellular and viral proteins. The HTLV promoter uses CREB, a cellular transcription factor, along with Tax, a viral transcription factor, to recruit CBP/p300 to a viral enhancer element called a CRE leading to high transcriptional activation of the provirus. The KIX region of CBP/p300 indirectly interacts with the viral CREs by binding Tax/CREB/DNA complex. The KIX minimal domain is a well-defined region from 588aa to 683aa that has been extensively used in the literature. Despite the use of this well-defined domain, there appears to be some differences in the viral complex interactions depending on the domain perimeters. To explore the possibility that the viral complex requires a more broadly defined KIX domain, the final product is extended by several hundred amino acids to the N-terminus. The longer KIX domain (named KIX long) is cloned into the same expression vector as the minimal KIX domain to facilitate side by side interaction assays.

Pinales, Stephany

Ethnic Differences in Parenting Styles and their Effects on Well-Being

Dr. Jerry Bruce & Dr. Marsha Harmon

Psychology

Sam Houston State University

Abstract: 72

Room: 48

Time: 2:20

The purpose behind this research is to examine how the relationship between reported parenting style and personal well-being varies across ethnicities in the United States. The parenting styles will be determined using Diana Baumrind's work allowing for three possible categories: authoritarian, authoritative, and permissive. (Baumrind, 1971). Using the scale developed by Ryff, Psychological Well-Being (PWB; Ryff & Keyes, 1995), I will measure the effect across differing ethnicities and parenting styles. The Ryff Scales measures autonomy, environmental mastery, personal growth, relations with others, and self-acceptance. The target group will be young adult (ages 18-25). The participants will be administered a biographical questionnaire, Ryff's PWB scale, and a parenting style questionnaire. Data analysis will show the existing correlations between variables.

- Discover new ideas
 - Create new knowledge
 - Share your wisdom

Porter, Baylee

Establishing odor and stress behavioral paradigms in zebrafish

Thomas Mueller, Ph.D.

Psychology/Biology

Kansas State University

Abstract: 73

Room: 52

Time: 10:25

Altered smell sensation is a hallmark of human affective disorders. Schizophrenia and bipolar disorder are characterized by deficits in odor discrimination. Despite their medical relevance, the neural circuits mediating olfaction and emotion in higher forebrain regions is barely understood. Zebrafish, due to its small size and amenability to genetic manipulations is an important model to dissect neural circuits of sensory processing and behavior. We have investigated neural activity patterns with an antibody against phosphorylated extracellular signal-regulated kinase (pERK) as a readout of neural activity in odor-driven experimental paradigms. We then compare expression patterns after inducing specific emotional states such as fear, anxiety, and appetitive behaviors. The different paradigms reveal distinct expression patterns supporting an overall conserved functional forebrain organization. This methodology can be used to functionally characterize the zebrafish forebrain in regard to odor-processing nuclei. This provides the foundation to dissect neural circuits of odor-induced emotion in this model organism.

Quarnstrom, Donya

Does financial aid impact academic success at regional comprehensive universities in the U.S.: A Panel Data Approach

Kelley Cullen, Ph.D.

Economics

Eastern Washington University

Abstract: 74

Room: 48

Time: 2:45

With increasing scrutiny being placed on the rising costs of a college education, regional public universities are being held accountable for their students' success and are therefore continually working towards improving academic outcomes at their institutions. This improvement demands an understanding of factors affecting graduation and retention rates including challenges students may face being low-income, parenting students, the amount and different forms of funding, and managing student loan debt. This study focuses on the relationship between student financial aid and measures of student success to include retention and six-year graduation rates. Using a panel data approach testing for both random and fixed effects with generalized least squares from a selection of 62 institutions within the same Carnegie classification, we found that universities with more students receiving federal grants typically had higher six-year graduation rates. Retention rates and six-year graduation rates increased with higher average federal grant amounts. Schools with more students using loans increased retention rates, but decreased graduation rates. We found particularly interesting that a higher percentage of students receiving general aid had a negative relationship with six-year graduation rates, while increased amounts of Pell Grant and federal funding had a positive relationship with the graduation rates of its recipients.

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Ramsey, Erin

A Study of Attachment and Mental Health; Mother, Father, and Sibling and Depression, Anxiety and Distress Disclosure

Ron Wright, Ph.D.

Psychology

Southern Nazarene University

Abstract: 76

Room: 48

Time: 3:35

Attachment to one's primary caretaker has been found to have serious implications for the remainder of his or her life particularly within the area of personality formation and mental health. There is little information regarding attachment relationships beyond primary caretaker and mental health. In this study, the correlation of attachment relationships with one another, mental health measures, and the predictive behavior of these relationships on mental health measures was assessed through a series of self-report surveys taken by individuals with at least one sibling over the age of eighteen (N=162). Results indicated that mother, father, and sibling attachment each correlate in different ways with one another as well as with mental health measures. Sibling attachment anxiety became chiefly important within this study. The possible causes and implications of these findings are discussed.

Rodriguez, Lourdes

Making a biased jury decision: Implicit factors associated with a guilty verdict for Steven Avery among the public

Adriel Boals, Ph.D.

Psychology

University of North Texas

Abstract: 77

Room: 48

Time: 4:00

The Netflix documentary "Making a Murderer" chronicled the conflict between Steven Avery and the Manitowoc County legal system. After spending 18 years in prison for a wrongful conviction, Avery was arrested again and found guilty of murder. Due to the controversial nature of the case, and the popularity associated with the documentary, this event was used to evaluate several variables that may influence judgement on decisions of a defendant's guilt. Participants (N = 905) were recruited online via social media platforms and completed an online survey containing questionnaires related to demographics (e.g., gender, ethnicity), perceptual (e.g., punitive attitudes), and psychosocial characteristics (e.g., posttraumatic stress symptom severity). The majority of participants rated Avery as innocent. Female participants reported higher ratings of guilt than males. Lower ratings of guilt were associated with lower levels of SES, greater religious involvement, higher PTSD symptoms, and greater negative attitudes toward the judicial system. Race and political beliefs were unrelated to ratings of guilt. These results support prior research suggesting psychological and demographic variables may influence jurors' judgments of guilt in murder trials. Implications concerning maintaining impartiality among jury peers and preventing implicit biases are discussed.

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Rosas, Audel

The International Sojourn and University Dynamics: A Cross-Cultural Perspective on International Student Development

Christina Torres Garcia, MBA, Ph.D.
International Affairs
Eastern Washington University

Abstract: 80

Room: 51

Time: 4:00

Focusing on intellectual development over social development has become the dominate philosophy on addressing student development within the international student population. This dominate method on conducting research on international students has produced limited research fixed upon the intellectual dimension of student development. The findings gathered at Eastern Washington University through the Asia University American Program suggest that student development is composed by an intellectual dimension along with a psychosocial dimension. Both components are intrinsically linked and are necessary for a successful international student program that facilitates successful student integration and development. Through understanding the procedures and role that the Asia University American Program provides for the Japanese students during their sojourn experience, more research can be seen as needed in broader areas than academic achievement lens to understand the student development of international students.

Smith, Robert P

Designing a Solar Thermoelectric Generator, Mk II

Xiaohua Li, Ph.D.
Mechanical & Energy Engineering
University of North Texas

Abstract: 82

Room: 42

Time: 11:40

The last decade witnessed a significant increase in the time and expertise invested in researching sustainable energy generation technologies. A low-cost, portable solar thermoelectric generator (STEG), envisioned by Dr. Xiaohua Li and initially intended to charge the batteries of remote sensors in the fall of 2013, completed its third iteration in the summer of 2015. The second iteration operated less efficiently than the first while the third has surpassed both.

The third iteration utilized three simple changes to double the average temperature difference across the thermoelectric modules. Those changes included a redesign of the permeable dome, application of a highly conductive thermal plaster, and improved heat sink. Data still shows this design to operate at only 12% of the efficiency of a standard photo-voltaic (PV) panel of comparable size, but improvements in the thermoelectric modules and design refinements can close this performance gap. The device is intended to undergo a 4th iteration in the summer of 2017 and a full-sized hybrid PV-STEG panel is being constructed in the spring of 2017 as a senior design project.

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Tarpley Johnson, Davida

A Study of the Correlates of Attention Deficit Hyperactivity Disorder, Callous-Unemotional Traits and Facial Emotion Recognition

Dr. DeMarquis Hayes
Global E-Learning/Psychology
Texas A&M University-Commerce

Abstract: 84

Room: 48

Time: 4:25

Callous-Unemotional (CU) traits, a component of psychological conditions that demonstrate conducts of insensitivity and a lack of empathy and remorse, consistently forecast severe antisocial behaviors and correlate with insufficiencies in recognizing emotions. This study will assess CU traits and facial emotion recognition (FER) in university students with symptoms of Attention-Deficit Hyperactivity Disorder (ADHD) and other disabilities in association with participants without disabilities. The clinical groups that demonstrate discrepancies in emotion recognition will seek to clarify whether or not CU traits and ADHD symptoms are a factor in FER. Results suggested that there was not a correlation between ADHD related behaviors and CU traits. Participants who scored higher in ADHD related behaviors scored lower on FER. People who scored low for ADHD related behaviors, but have some other type of disability have an increased ability to recognize facial emotions. And, people who scored low for ADHD related behaviors, but have some other form of disability tend to exhibit more CU traits.

Velasco, Lidia

La lleyenda de Yobi, el Zorro con Cinco Colas/ 천년여우 여우비/ Emotion in Translation: A Humanistic study of Translation Korean to Spanish

Micheal Zukosky, PhD
Anthropology
Eastern Washington University

Abstract: 85

Room: 51

Time: 1:55

With the growth of globalized media, researchers have focused on how to translate across cultures and decipher emotions, especially when translating popular media. The components included in translation are not only knowledge of the language, but also knowledge of the cultural connotation expressed by a word. Using a children's animated movie named Yobi, the five Tailed Fox, I analyzed Korean-Spanish translation using theories based on emotion, cultural connotation and language. Emotions in Korean are not easily translated into Spanish because of cultural differences in emotional expression. My study showed that the word choices of the translator affects not only the story, but also the viewer's perception of the feelings from the characters. There are emotions in Korean that are not translated into another language, due to the differences of how their culture expresses emotion. In this study, Andrew Correwa the translator of this animated movie used word choices that changed and altered a scenes connotation, to make it more understandable for the Spanish viewers. Translators must make complex word choices to deal with differences between the emotions of the character as intended in the source language and the emotional expectations of the target language audience. Translators, to do a good translation, need to consciously reflect on word choice to balance these intentions and expectations.

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Velasquez, Roxana

Assessment of Phenology and Development of Methodology for Estimation of Fruit Production of Aguacatillo Trees in San Gerardo de Dota, Costa Rica

Bio-chem

Southern Nazarene University

Abstract: 86

Room: 42

Time: 4:00

The valley of San Gerardo de Dota, Costa Rica, is in the tropical montane cloud forest of the upper Savegre River area with the elevation of approximately 2,300 meters above sea level. There are over 170 species of birds to be seen, including hard-to-spot species like the Resplendent Quetzal. Of all the fruit the Quetzal consumes, forty percent comes from Aguacatillos of the Lauraceae family (Avila, 1996). One purpose of this study is to understand the phenology of Aguacatillo for the benefit of current and future researchers as they strive to determine the role of Aguacatillo trees in the migration patterns of the Resplendent Quetzal and development of the San Gerardo de Dota Valley. Observing and understanding the phenology of Aguacatillo trees in the San Gerardo de Dota valley requires a consistent method for measuring fruit production so data over multiple years can be accurately and efficiently compared. This study includes two parts: (1) monitoring Aguacatillo phenology and (2) establishing a method that is consistent, efficient, and reliable for determining fruit production in Aguacatillo trees. Phenology was studied via data collection of DBH (diameter at breast height), health condition, and fruit increment category. An estimation method was established using a set distance of 10m, a 25 x 25 cm frame, and a camera to determine the fruit production in 5 trees. The frame method demonstrated to be inefficient for fruit production estimation. From each of the samples taken, half showed the presence of fruits. This was an unreliable demonstration since all but one of the trees had a fruit increment category of at least 1. The frame methodology showed the best results when the tree bore visibly few or visibly many fruits. As an extension, a study using seed traps could be developed to achieve efficient and reliable results.

Wages, Dylan

Artificial Muscles in an Exoskeleton

Vijay Vaidyanathan, Ph.D.

Biomedical Engineering

University of North Texas

Abstract: 87

Room: 42

Time: 1:30

The soldiers of the United States military are constantly expected to carry increasing amounts of equipment. These heavy loads can cause unnecessary stress on the soldiers' joints and could slow the soldier down in combat. An unpowered exoskeleton that puts the weight of the equipment into the ground instead of through the soldier can help relieve these stresses, but motion or movement speed could be limited. A powered exoskeleton can relieve the stress and improve the soldiers' range of motion. Though powered exoskeletons already exist, they usually use hydraulics, pneumatics, or electric motors which are expensive, heavy, and have too many moving parts that could potentially fail. However, artificial muscles are cheap, light, and are used together to create larger forces to assist the soldier and could prove to be a better alternative to the previously mentioned technologies.

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Williams Kang, Katie

F420 H2:NADP+ Oxidoreductase Hydride Transfer Rates: Kinetic Analysis of Thr09 Mutant

Dr. Kayunta Johnson-Winters
Microbiology
University of Texas at Arlington

Abstract: 89

Room: 42

Time: 4:25

F420 cofactor is an NADP analog whose structure is reminiscent of 5-deazaflavin that is found in methanogenic and sulfate-reducing archaea. Because of its high abundance in cells, F420 cofactor is believed to be the major electron transfer entity. F420 exclusively mediates two-electron transfer reactions and has a low redox potential which is required for specific energy producing reactions such as the conversion of carbon dioxide to methane. While there are many F420 dependent archaean enzymes, our focus is on F420 H2:NADP+ Oxidoreductase (Fno). Fno catalyzes the production of reduced NADP, an important biological fuel. Thr 09, a conserved amino acid within Fno that interacts with NADP, was converted into T09A in order to study the effects of the hydroxyl group on hydride transfers. The binding studies displayed a 5-fold increase in the NADPH dissociation constant. According to the steady-state data, the presence of NADPH is required prior to FO for optimal activity for the T09A variant. The pre-steady state kinetic data revealed a 36-fold increased rate of hydride transfer for the T09A variant compared to wtFno. In contrast to wtFno pre-steady state kinetic data, T09A displayed a single-phase exponential decay, rather than biphasic burst kinetics, as seen with wtFno. These data suggest that Thr 09 plays a role in NADPH binding, as well as the rate at which the hydride is transferred to the FO cofactor and subunit communication within the Fno dimer.

Yarbrough, Joshua

Interpersonal Relationships in Prison Systems and their Effects after Release

Sharon Rae Jenkins, Ph.D.
Psychology
University of North Texas

Abstract: 90

Room: 52

Time: 10:50

The incarceration of an individual separates them from their previous place in society. Once incarcerated, an individual becomes a member of a new society and is likely to develop new interpersonal relationships with the other members of this society. Relationships can form among the various group classifications within prisons (e.g., staff members, clergy, prisoners). The literature I have reviewed focuses on the outcomes related to social structure and relationships, both positive and negative, within prison systems. I plan to study released inmates by using a questionnaire to examine associations between relationships in prison and behavior after release. The US prison system is not currently accomplishing its role within our society. Individuals that are released after completing their sentence are likely to re-offend and return to prison at some time. The goal of this research study is to learn about interpersonal relationships and the possible effects they have on previously incarcerated individuals.

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Zayas, Minerva

Beyond labels and boundaries: Queer chicana individuals and psychological identity development

Jessica Willis, Ph.D.

Women and Gender Studies and Psychology

Eastern Washington University

Abstract: 91

Room: 52

Time: 11:15

Chicana women experience gender oppression and have actively challenged gender bias since before the start of the Chicano social protest movement (Garcia, 1997). Historically, as Mexican American women and men started working towards equal rights, Chicana women have experienced marginalization because of their voice and gender status. Additionally, queer Chicana women, or women that identify within the LGBTQ+ communities, have been oppressed within the Chicana feminist movement. Minimal research has been performed on the positive psychological identity development of Queer Chicana women. By using a mixed methods approach to challenge general ideas around the LGBTQ+ community and wellbeing, this research seeks ways to serve diverse ethnic and sexual minorities. Highlighting Chicana women's experiences around sexism, culture, and religion, I will be performing in-depth interviews on LGBTQ+/Queer Chicana women that attend Eastern Washington University. As I continue to conduct interviews, I predict that my analysis will bring greater visibility to Queer Chicana women and the diverse ways in which they construct their sex and gender identities. Their narratives will contribute to enriching current towards a greater understandings of the ways that Queer Chicanas in the United States frame selfhood.

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ABSTRACTS (POSTER)

Avila, Yelixza

Effects of Body Manipulation on Insect Succession and Postmortem Interval in the Transpecos Region of Texas

Dr. Christopher Ritzi

Biology

Sul Ross State University

Abstract: 3

Room: 314C

Time: 1:30

The question 'What effect on insect succession and postmortem interval would body manipulation have on corpses?' was addressed and answered by using forensic entomology. It was hypothesized that the manipulations would delay both decomposition rate, and rate of insect succession when compared to a control. Over the course of 45 days, three pig cadavers - two wrapped in different colored plastic and one control - were observed. Insects associated with the carrion were collected to pin and identify, and daily photos were logged to keep track of decomposition. Once the time frame was completed, the findings were analyzed. Primary insect activity varied over time, but dominate insects included Calliphoridae, Sacrophagidae, Muscidae, Dermestidae, Staphylinidae, Cleridae, Histeridae, and Silphidae. Results showed that the hypothesis on the delay of insect succession was not relative because the arrival of insects all occurred within the same time frame on each of the cadavers. The hypothesis on decomposition was supported by the data, showing that each cadaver had gone through decomposition at different rates. Overall, this project served as one of the first of its kind to be done in this region, providing a baseline on insect succession associated with the Trans Pecos region.

Brooks, Hazel

Predicting Attachment to God in Victims of Trauma: A Take on Narrative Complexity

Scott Drabenstot, Ph.D.

Psychology

Southern Nazarene University

Abstract: 8

Room: 314C

Time: 1:30

There are all sorts of stories that are told that can be true or untrue. In everyday living, life stories are shared. People who have experienced trauma tell their stories differently, if at all. These people also tend to be insecurely attached to caregivers and people who are around them. In this study, narrative complexity is used to determine trauma victim's style of attachment. The less complex a trauma narrative is, it is predicted that the more likely this person is to be insecurely attached to God. The more complex the narrative is, an adverse effect occurs. Level of complexity will be determined by a computer program using the Flesch Kincaid reading level measure and the Flesch reading ease measure. In this paper, it is hypothesized that narrative complexity in victims of trauma will predict one's attachment to God.

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Chavez, Joey

The Creative Process Featured in Two Parts: Part 1: A Critical Analysis of Barry Lopez' Creative Process Part 2: My Own Creative Style of Writing

Dr. Theron Francis

English

Sul Ross State University

Abstract: 13

Room: 314C

Time: 1:30

This research project is featured in two parts. The first part is to understand Barry Lopez' creative process in writing and storytelling. The idea was derived from the Sowell Conference in Lubbock, Texas, where I met Lopez and heard him talk about the environment and the effects it has on us. This research deals with the overwhelming use of technology and the effects it has on our earth. After reading Lopez's work, and researching his written works at the Sowell Archives at Texas Tech, I was inspired with the idea that creative environmental literature can have an impact on those who read it. The purpose of this research is to analyze how Lopez presents his ideas of a calling from nature, a revealing of the creative and destructive potential of craft, alienation, and reconciliation through writing in order to show how environmental literature can be effective towards the future of the earth. Martin Heidegger, Italo Calvino, and Northrop Frye are other supporting writers that helped shape this project. The final section of this research is my own creative writing in the form of a short story. Since Lopez focused on the process of writing short stories, I wanted to understand that process, in hopes of telling the story of Alpine, Texas. My short story is titled "Memento" and it targets the Trans Pecos Pipeline scheduled to actively run beginning of 2017 in Alpine, Texas. This story will capture the emotions within the town, the community, and the earth, while simultaneously reflecting the intimate creative writing process that Lopez presents in his writing.

Cowan, Landon

Evaluation of a computer-based training package on novice instructors' implementation of discrete-trial and naturalistic instructional techniques

Karen Toussaint, Ph.D., BCBA-D

Applied Behavior Analysis; Spanish

University of North Texas

Abstract: 16

Room: 314C

Time: 1:30

The current evaluation assessed the effects of a computer-based training package to teach novice behavioral therapists to implement discrete-trial instruction (DTI) and a naturalistic developmental behavioral intervention (NDBI). A multiple-baseline design across two trainee-child dyads indicated that training resulted in improved implementation of both instructional techniques for trainees. In addition, increases in trainees' performance across untrained DTI programs during generalization sessions following training on one DTI program. Improvements in child behavior were also demonstrated as child-participants' language increased in correspondence with therapists' fidelity of naturalistic instructional techniques.

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De Paz, Mayte

DTEEL curriculum (Design Technology in elementary Engineering education for bilingual English Learners).

Rebecca Callahan

Education

University of Texas at Austin

Abstract: 19

Room: 314C

Time: 1:30

In the following study we intend to draw on immigrant parents' funds of knowledge about the world around them to support and build on their children's academic development. Findings will contribute to our understanding of how bilingual children can benefit from engineering education. Semi-structured interviews and on-the-job observations with 3-4 immigrant families from Mexico were carried out to create our database. We interviewed 5 families for approximately one hour. Three of these families were chosen for more in-depth interviews. We visited one member from each of the three families at their jobs to observe specific applications of engineering-related concepts. We then examined the relationship of these applications to the DTEEL curriculum (Design Technology in elementary Engineering education for bilingual English Learners). Lastly, we visited their households to conduct in-depth interviews specifically focused on the DTEEL curriculum. Thus, an engineering knowledge in their jobs would be obtained. At all times during our research, we interacted with the parents in their preferred language. Data coding will follow Creswell's (2013) recommendations; we will develop codes and cluster existing codes from interviews and field notes inductively several times until we stop adding codes and themes. After the interviews have been transcribed and analyzed, we will meet to discuss the emerging patterns and relate the engineering knowledge of parents in their jobs with the DTEEL curriculum.

Elmore, Stephanie

Determining the Depositional Setting of a Limestone Unit in Big Bend Ranch State Park, Texas

Dr. David Rohr

Geology

Sul Ross State University

Abstract: 26

Room: 314C

Time: 1:30

A thin (~1 m) relatively widespread Oligocene - Eocene limestone unit occurs within the Solitario Conglomerate (Henry, 1998) on the Big Bend Ranch State Park, West Texas. Cenozoic limestones are unusual in this region of Trans-Pecos, Texas because the area is dominated by volcanics and clastics. The limestone is thin-bedded, light-colored, locally dolomitic, and contains only 10 - 12 % insolubles. Travertine textures are abundant along with stromatolitic laminations, birdseyes, oncoids, and intraclasts. No bioclastic allochems were observed. SEM and EDS observations of fractured surfaces revealed calcified filaments (1 μm) of cyanobacteria penetrating the matrix. Absence of Cenozoic marine units in the region suggests a lacustrine depositional setting. Thinness of the unit, light color (lack of organics) and lack of variation in the carbonate facies indicate a closed lake on an alluvial plain. Stromatolites, birdseye structures, lime mudstone rip-ups, and oncoids indicate very shallow conditions. An ephemeral lake or playa may have been fed by springs and groundwater seepage which explains the lack of clastics. The minor amount of clay-sized clastics is due to eolian processes. Longer term changes in climate can cause the water table to rise and fall forming a lake and then reverting back to a clastic setting.

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Espinoza, Jonathan
Measuring Compassion On The Modern Campus
Dr. Nathan Robertson
Communications
West Texas A&M University

Abstract: 27
Room: 314C
Time: 1:30

The objective of this study was to evaluate levels of compassion from a diverse cross-section of students on the campus of a mid-sized university as it pertains to the LGBTQIA (Lesbian, Gay, Bisexual, Transgender, Questioning, Intersex, Asexual) community. The study sought to answer if college students are compassionate toward those who identify within the LGBTQIA spectrum. While analyzing data collected via standard demographic questionnaires and a compassion scale adapted from Pommier's Scale (2010), it was revealed that while a vast majority of students were outwardly compassionate toward the LGBTQIA community in regards to their responses on the adapted compassion scale, the observation of the subjects in both one-on-one interviews and focus groups revealed hesitation in their responses and posited the notion the ego-defense were employed in the form of displacement.

Galdamez, Michelle
Caring For Our Own: A Study Of Hispanic Nursing Students At WTAMU
Dr. Deborah Davenport, PhD,RN,CNE
Health Sciences
West Texas A&M University

Abstract: 31
Room: 314C
Time: 1:30

The purpose of this study was to examine the relationship between Nursing programs' diversity and graduation rates of Hispanic students. A cross-sectional survey design was used to assess an undergraduate Nursing program. Data was obtained from the Nursing Program at West Texas A&M University, Canyon, Texas. (n=39). Graduation and retention of Hispanic students were identified with a qualitative study. Relationships were identified between financial support and graduation rates; as well as student retention and health related issues. Emotional and moral support of the student from faculty and family were key for the student when it came to answer. Conclusions and directions are presented.

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Hare, Daejha

The Psychological Effects of Exergaming on Overweight Youth

Sarah Ullrich-French

Human Development

Washington State University

Abstract: 37

Room: 314C

Time: 1:30

The purpose of this study is to find ways to improve psychological well-being of overweight children through exer-gaming. The Department of U.S. of Health(2005) and the Lets Move Campaign(2010) are national examples of using nutrition and exercise as primary ways to remedy obesity in children. Losing the weight seems to be the most influential part of curbing obesity in America. However, these methods prove unwarranted because the U.S continues to see obesity rise in children and research shows a need for a shift in approach (Bacon &Amphramor, 2011). In 2014, the Center of Disease Control and Prevention (CDC) reported the amount of overweight or obese children ages 6-11 and adolescents' ages 12-19 in the United States is increasing at alarming rates. In the last 30 years, childhood obesity has more than doubled and quadrupled in adolescents (CDC, 2014). In 2012, more than one third of children were overweight or obese in the United States (CDC, 2014).

Hernandez, Daniel

The Availability of Equipment in Different Physical Therapy Clinics

Dr. Vanessa Fiaud

Health Sciences

West Texas A&M University

Abstract: 38

Room: 314C

Time: 1:30

Different types of physical therapy equipment are key instruments in the treatment of patients recuperating from injury, illnesses, and surgery. After treatment, patients are expected to have a greater range of motion, a lower amount of pain, and an overall better quality of life. There has been an extensive search for information in the literature concerning the benefits of many different types of physical therapy equipment currently available. Twenty surveys have been distributed to licensed physical therapists in the Amarillo, Texas metropolitan area concerning what types of equipment are ideal for better patient outcomes. Currently we have a 15% return rate. The survey was organized around five main themes: the importance of the location of the clinic and patient attraction; the diversity of equipment owned; the measures of equipment efficiency; expansion and technological innovations; and the physical therapist's view on the importance of the equipment. The diversity of the data received is insufficient to be able to make a valid conclusion though the results have been very interesting. All respondents agreed they preferred simple and more cost efficient equipment because it gave the therapist a better one-on-one interaction with patient and was usually more space efficient.

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Kaur, Harmanpreet

A Novel Role for Agouti Gene in Stress Response in Mice

Dr. Venugopalan Cheriyaath

Biology

Texas A&M University-Commerce

Abstract: 45

Room: 314C

Time: 1:30

Stress, a common yet debilitating mental condition, affects people of all ages. Although several molecular mechanisms have been associated with stress, variations in individual stress response remain unclear. Considering the role of epigenetics in behavior modulation, we hypothesized that epigenetic variations control stress responses. This was tested in an agouti (Avy/a) mouse model. Mutated agouti mice incur varying levels of cytosine methylations as a result of a retrotransposon insertion at the 5' end of the agouti gene. Using the open field test, anxiety and exploratory behavior in Avy/a and a/a control mice were compared. Results from a weight and age matched randomized study (n=21) showed that Avy/a mice had a significant increase in explorative behavior ($p < 0.05$) and increased center grid entrance (14.86x) when compared to non-agouti mice (9.621x). This indicates a reduction in basal level anxiety of Avy/a mice. Moreover, immunoblot analysis identified the altered expression of agouti signaling targets in a/a mice, suggesting a link between agouti signaling and anxiolytic behavior in agouti mice. Our results suggest epigenetic changes within mutated agouti mice are modifying stress response through altered expression of agouti signaling pathways.

Kent, Jesse

Transport of Sulfur, Oxygen, and Lithium Ions through Molecular Hydrogen Gas

David Schultz, Ph.D.

Physics

University of North Texas

Abstract: 47

Room: 314C

Time: 1:30

When a fast moving ion passes through matter it inevitably collides with the constituent particles of the matter. These collisions for the ion to lose energy through different reaction channels. The rate of change in the energy of the ion with respect to the distance traveled into the medium is known as the stopping power of the system. Using ab initio cross-sectional and energy loss data for various possible channels a computer simulation can be made to theoretically model such collision processes and develop a stopping power for the ions. In this research we apply this approach to the transport of sulfur, oxygen, and lithium through molecular hydrogen gas and compare it with the most current model fit according to the Stopping Range of Ions in Matter (SRIM).

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Licon, Jonathan

Circadian Rhythms Of The Gastrointestinal Tract

Dr. Stephen Karaganis

Biochemistry

West Texas A&M University

Abstract: 48

Room: 314C

Time: 1:30

Circadian rhythms are regulated by central and peripheral oscillators that control the activity of physiological processes on a 24-hour basis. The suprachiasmatic (SCN) is known to be the master central oscillator and is composed of multiple, single-cell circadian oscillators that function to coordinate circadian oscillators in numerous organs throughout the body. Regulation of peripheral tissues is accomplished through neuronal connections and circulating humoral factors. Molecular mechanisms of oscillators are based on molecular feedback loops involving rhythmic transcription of specific clock genes. Whereas light is the major cue for entrainment of the circadian system as a whole, food entrainable oscillators (FEO) are endogenous circadian timing systems that synchronize to rhythms in food availability. Examples of food entrainable peripheral organs include the gut and liver. Clinical evidence reveals gastrointestinal (GI) chrono-disruption may result from desynchronization of the environment, which includes shift work, sleep restriction, or behavioral desynchronization. Studying the changes in their hormone secretions with environmental alterations as well as light intake can aid clinical development in understanding communication within the GI. Healthy individuals synchronized to a normal light/dark (L/D) cycle will naturally defecate in the morning/after meals, giving rise to the belief that serotonin within the GI tract will also be increased among these hours. In our proposed study, intestinal epithelial glands will be isolated from the small intestine to study potentially functioning oscillators in vitro. Successful development of this model will allow us to investigate how oscillators within epithelial cells of intestinal glands regulate important processes such as hormone secretion.

Luevano, Edgardo

Comparison of pollinated vs. non-pollinated Malus domestica L. apples in orchards within the tropical cloud forest of San Gerardo de Dota, Costa Rica

Dr. David Hoekman

Bio-chem

Southern Nazarene University

Abstract: 51

Room: 314C

Time: 1:30

The apple orchards of San Gerardo de Dota are all part of the *Malus domestica* L. species. The apple orchards have provided the locals with not only food, but with an income as well. They have been harvesting and expanding the apple orchards for the last couple of decades. In order for the apple trees to produce a fruit they need to be pollinated. Ten trees were chosen within the apple orchard for this experiment. Of those ten trees tagged, two branches that contained closed flower buds were bagged to prevent insect pollinators from pollinating the flower. While the apples were growing, observations of the insect pollinators visiting the apple orchards were conducted. Observations showed that the majority of the insect pollinators visited the flower buds mostly in the morning. The most abundant insect pollinator observed were bees. After approximately two months, the apples that were bagged

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and apples that were on the same branch were harvested and compared based on size, weight, seed slots and seed amount. Non-pollinated apples only produced 15 apples from 269 flower buds, a 5.6% production rate. The pollinated apples produced 55 apples from 85 flower buds, a 64.7% production rate. Non-pollinated apples were smaller and have fewer seeds. The main insects found within the orchards were bees of the family Apidae and Colletidae. This experiment showed that non-pollinated apples produced fewer apples than pollinated apples. Also, the non-pollinated apples that were produced turned out to be smaller than the pollinated apples.

Maldonado, Adrian

Synthesis of Mechanism Based Inhibitors of Parasitic Nematodes (Helminthes)

Dr. David Leaver (Sul Ross State), Dr. David Nes (Texas Tech)

Biology/Math

Sul Ross State University

Abstract: 52

Room: 314C

Time: 1:30

Soil transmitted helminth (STH) Infections are commonly found worldwide with the World Health Organization (WHO) estimating that two billion people are infected worldwide which corresponds to approximately 24% of the world's population. Currently there is a limited armamentarium of anthelmintic drugs and the drugs currently used are becoming subject to drug resistance and environmental concerns. Helminths do not have the ability to biosynthesize their own sterols and they must obtain them from their host. Sterol A-ring methylase-1 (STRM-1) is a promising drug target as it has been shown that accessibility and modification of the fourth position in a sterol ring is needed in order for these helminths to reproduce. STRM-1 is unique to helminths and is absent from human hosts and due to this there is a great potential to develop selective therapeutics for these infections by inhibiting the function of STRM-1. This project details the synthesis of two mechanism based inhibitors of STRM-1, 6-fluorocholesterol and 4-cyclopropylidene-cholestan-3-one as well as their possible use in the treatment of parasitic nematode infections.

Maxie, LaDee

The power of campus climate

Richard Reddick

African & African Diaspora

University of Texas at Austin

Abstract: 54

Room: 314C

Time: 1:30

The purpose of this qualitative, semi-structured in-depth interview study is to examine if campus climate has an influence on the way black student leaders perceive their individual identity. The enrollment rates of black college students in PWI have not increased regardless of the increase of black students receiving their four-year degrees. The in depth interviews analyse whether or not the campus climate has had an effect on black student personal identity and if that effects their school success. This study showed that the campus climate does indeed affects a students success. For black students there is also this external pressure from perception of what it means to black.

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Negron Rolon, Christian

Association between Triclosan in Anti-bacterial Products and Bisphenol A in Thermal Receipt Paper

Dr. Yuping Wu

Biology

Cleveland State University

Abstract: 64

Room: 314C

Time: 1:30

Triclosan and BPA (Bisphenol A) have been reported to interact with each other causing BPA to leach out of plastic products [7]. The main purpose behind this study is to assess how it is that Triclosan and BPA interact with each other in isolated mediums. HPLC (High Performance Liquid Chromatography) instrumentation was used to generate a BPA calibration curve as well to validate extraction methods. Coefficients noteworthy to mention include the correlation coefficient pertaining to the line of the BPA calibration curve at 0.998. Results for this study include a rejection to our extraction method as well as a proposition of a formation of a complex between Triclosan and BPA through a condensation reaction [2] in vitro. Results from further IR analysis and characterization reject the proposition of a condensation reaction. Keywords: Triclosan, BPA (Bisphenol A), HPLC (High Performance Liquid Chromatography), condensation reaction.

O'Dell, Kylee

Adaptive Biological Microscope

Dr. Doug Weirick, William Shain (Boston)

Physics

East Central University

Abstract: 66

Room: 314C

Time: 1:30

Our eyes are a window into our body. By viewing cells and blood vessels located on the retina, doctors can diagnose diseases such as diabetes and glaucoma early on.¹ Due to aberrations of the eye, light becomes distorted, making it difficult to image the back of the eye.² Retinal imaging technology using deformable mirrors currently exists, although these mirrors are not cost effective. Liquid lenses could provide an alternative to deformable mirrors as they are much more affordable. Using a liquid lens to correct for low order aberrations could significantly cut the cost of these systems, making it a more practical investment and leading to early diagnoses of more patients. We tested the ability of a liquid lens to correct the defocus aberration in an optical system and found that a liquid lens is effective in correcting the defocus produced by lenses with as short as a 200 mm focal length. We hope that this information could lead to improvements in retinal imaging technology.

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Quinonez, Jasmin

Gender Differences in Criminal Behavior: Comparing Established Profiles of Male and Female Murderers

Dr. Mark Rubin
Criminal Justice
Sul Ross State University

Abstract: 75

Room: 314C

Time: 1:30

This research project will examine the victimology of homicide victims by comparing the motivation factors between male and female perpetrators of homicide. Inspired by the cases, and differences in victimology between, female serial killer Aileen Wuornos and male serial killer Charles Cullen, the concepts of gender influences will be explored in the context of psychological and biological theoretical models. This project compares and contrasts the differences in homicidal motivation, victimology, and pathology applying various patterns to determine which factors predominantly influence offender motivation in homicide victimology. Given that most criminological theory and research focuses on the social and economic forces that drive crime, this statement forces us to consider alternative drivers to crime, and especially violent crime. Specifically, we must consider overall gender-based motivation and victimology in order to ascertain if there are sufficient similarities to support an environmental or biological link between murderers, their actions, and victims.

Rodriguez, Vanessa

Hispanic Older Adults' Perception About Depression: A Qualitative Study

Yuri Jang
Psychology
University of Texas at Austin

Abstract: 78

Room: 314C

Time: 1:30

Mental Health can be classified as a key feature that has an effect on how one functions on a daily basis. Mental illnesses, more specifically, depression, is an illness that is seen as a problem within the Hispanic population. Hispanics are the fastest growing minority group in the United States. As they continue to grow, it is only likely that continual research will be done in order to better understand this group. The present study is designed to explore the opinions that Hispanic older adults hold with regard to depression using a qualitative approach. Findings from this study revealed a grand amount of information regarding mental health from the participants themselves and the importance of properly informing others over mental health issues in order to tackle the stereotype within mental illness.

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Romero, Alexys

Feasibility Of Wind Turbines In Small Communities

Dr. Freddie Davis

Mechanical Engineering

West Texas A&M University

Abstract: 79

Room: 314C

Time: 1:30

The goal of this research is to influence West Texas A&M University to begin looking into a wind turbine project. If the project were to be implemented, the school as a whole would benefit as well as the environment. The research will involve looking into the feasibility of wind turbine use in small communities, with the initial community being the campus of West Texas A&M University in Canyon, Texas. We will research what type of wind turbine will be most feasible for certain situations. Aspects we will explore will involve different wind turbine technologies, wind patterns, and current electricity use. An important factor in the research will be understanding all of the challenges that accompany wind energy. One of these challenges will be deciding what to do when there is excess or deficit energy production. An extensive literature review has been performed to become more familiar with the wind-power industry as a whole. The average wind patterns for Canyon were investigated to determine if there would be enough wind to be able to produce enough energy to benefit the campus. Current electrical use was determined in order to determine what kind of wind project would be the most useful in terms of energy production and economic ability.

Ross, Kyler

Personality Traits Across Multiple Tasks

Brent E. Eskridge, Ph.D.

Chemistry

Southern Nazarene University

Abstract: 81

Room: 314C

Time: 1:30

Coordination of large groups of individuals is problematic, especially across multiple tasks and when communication is limited. However, such coordination is seen throughout nature with much of it occurring without any explicit communication. Previous research shows that biologically-inspired personality traits and the resulting leadership tendencies can produce such coordination in a single task even with limited communication. This research investigated incorporating multiple traits in an effort to produce coordination through different leaders in different tasks. The simulations predict that incorporating multiple personality traits can produce the desired coordination across multiple tasks at the same level of success as previous work in a single task.

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Swanson, Shalonda
Nigerian School Girls Influenced by Level of Education
Dr. William Morgan
Sociology
Cleveland State University

Abstract: 83
Room: 314C
Time: 1:30

Nigeria has an imbalance of educational options; however, since their independence, gender disparities have been observed to identify and eliminate policies that hinder the opportunity for girls to receive education quality comparable to their male counterparts. Since 1986, the free market reformed by the structural adjustment policies (SAP) as prescribed by the International Monetary Fund (IMF) and the World Bank. This present study examines how Nigerians' educational sectors help shape the belief systems, projection for future outcomes, and development of the country for young girls.

Wagner, Courtney
Sexual Assault and Dating Violence Survey on a Rural College Campus Setting
Dr. Crystal Aschenbrener
Psychology
University of Wisconsin-Stout

Abstract: 88
Room: 314C
Time: 1:30

Sexual assault and dating violence have been occurring across hundreds of college campuses in the United States, especially among domestic partners and acquaintances. The amount of sexual assault occurrences can range from campus to campus but statistics are demonstrating that 1 in 4 women will experience some kind of sexually related assault sometime while attending college (Cantor, Fisher, Chibnall, Townsend, Lee, Bruce, Thomas, 2015). Even more alarming is that roughly 80 % of cases go unreported (Buchholz, 2015). Contributing factors that can lead to sexual assault and dating violence includes damaging attitudes, beliefs, and myths. The abuse of alcohol, lack of college campus resources, and lack of resource awareness also plays contributing roles with sexual assault and dating violence. The modified survey, based from the Sexual assault climate survey, was conducted to further investigate ways to improve overall campus and community safety, overall student health and well-being, proper reporting of cases, and resource awareness and utilization.

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MCNAIR SCHOLARS ATTENDING

The following McNair Scholars are attending the conference, here to support their colleagues who are presenting.

Scholar	Department/Discipline	University
Adu, Gersom	Computer Engineering	University of North Texas
Aguirre, Chelsea	Psychology	University of Oklahoma
Alem, Nahum	Aerospace Engineering	University of Texas at Austin
Andrew, Billy	Computer Science & Physics	East Central University
Archibeque, Ben	Physics Education	Kansas State University
Arroyo, Raul	Field Crop Management with a minor in Horticulture	Washington State University
Avila, Yelixza	Biology	Sul Ross State University
Badat, Mahera	Psychology/Islamic Studies	University of Texas at Austin
Bakundukize, Emmanuel	Biology	University of North Texas
Baldovinos, Diana	International Business & Psychology	Washington State University
Barbosa, Karina	Ecology for Environmental Science	University of North Texas
Barrera, Maribel	Chemistry	University of North Texas
Bazaldua, Jaclyn	Biology & Microbiology	University of Texas at Arlington
Beans, Nekkita	Social Work	University of Mississippi
Bolivar Castillo, Scarlet	History	Sam Houston State University
Brooks, Hazel	Psychology	Southern Nazarene University
Brown, Kara	Psychology	University of Oklahoma
Bui, Tina	Microbiology	University of Texas at Austin
Burt, Meagan	Political Science	University of North Texas
Calvillo, Joana	Psychology	University of North Texas
Campbell, Dominique	English	University of North Texas
Cardwell, Tristen	English/Philosophy	University of Texas at Arlington
Carrillo, Dominic	Math/ Computer Science	Sul Ross State University
Castaneda, Krystalynn	Anthropology	University of North Texas
Chavez, Joey	English	Sul Ross State University
Clymer, Robin	Medical Physics	East Central University
Cornelius, Jessica	Psychology/Graphic Design	Southern Nazarene University
Corona Rodriguez, Rodolfo	Computer Science	University of Texas at Austin
Cowan, Landon	Applied Behavior Analysis; Spanish	University of North Texas
Croom, Justin	Physics & Mathematics	University of North Texas
Cruz, Katheryn	Chemistry	University of North Texas
Culver, Steven	Mechanical Engineering	Texas Christian University
Dadeboe, Ian	Chemistry	University of North Texas
Davis, Myria	Psychology	University of Oklahoma

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De Paz, Mayte	Education	University of Texas at Austin
Del Mar Godinez, Estrella	Psychology	Sam Houston State University
Delgado, Paul	Biology	University of Oklahoma
Delwel, Isabel	Biology	University of North Texas
Diaz, Brian	Mathematics	St. Mary's University
Dickerson, Jake	Music Composition	Southern Nazarene University
Durham, Xavier	Sociology/Anthropology	University of Texas at Austin
Earland, Noah	Biology; Minor in Biomedical Anthropology	Southern Methodist University
Earland, Dominique	Biology	Southern Methodist University
Elenwo, Covenant	Biology	University of Oklahoma
Ellison, Ashley	School Psychology	Eastern Washington University
Elmore, Stephanie	Geology	Sul Ross State University
Escamilla, Edward	Computer Engineering	University of North Texas
Espinoza, Jonathan	Communications	West Texas A&M University
Farnell, Jeremy	Nursing	Southern Nazarene University
Fernandez, Rolando	Computer Science	University of Texas at Austin
Frasier, Tuesday	Anthropology	Kansas State University
Fuston, Christine	Psychology	Wichita State University
Galdamez, Michelle	Health Sciences	West Texas A&M University
Gallegos, Marcos	Psychology	Southern Nazarene University
Games, Joie	Chemistry	Sam Houston State University
Garrett, Meranda	Anthropology	University of Oklahoma
Garza, Stormie	Biomedical Engineering	University of North Texas
Gonzalez, Catherine	Psychology	University of Texas at Austin
Grant, Meliah	Comm. Sciences and Disorders	University of Mississippi
Griggs, Tosha	Psychology	University of North Texas
Guerrero, Bryan	Biomedical Engineering	University of North Texas
Guerrero, Jesus	Biology	Sul Ross State University
Gutierrez, Saul	Computer Science & Engineering	University of Texas at Arlington
Hamilton, Jovanna	Psychology	University of Texas at Austin
Hammond, Ma'taya	Criminology/Sociology	Cleveland State University
Hankins, Kayla	Biology	Sam Houston State University
Harden, Mikayla	Government/Black Studies	University of Texas at Austin
Hare, Daejha	Human Development	Washington State University
Hare, Jesse	Political Science & History	University of Oklahoma
Hernandez, Cristal	Victim Studies	Sam Houston State University
Hernandez, Daniel	Health Sciences	West Texas A&M University
Hernandez Farias, Dalia	English and History Education	Washington State University
Herrera, Christa	Psychology	St. Mary's University
Howell, Megan	Pre-PT	Southern Nazarene University
Hudson, Keena	Apparel Merchandising Design and Textiles	Washington State University

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Hughes, Kody	Biochemistry	University of North Texas
Hurtado, Richelle	Psychology and Behavior Analysis	University of North Texas
Iwuala, Terrence	Mathematics	University of North Texas
Jesse, Sean	Physics	East Central University
Juarez, Nicolas	Native American Studies	University of Oklahoma
Kaur, Harmanpreet	Biology	Texas A&M University-Commerce
Kennedy, Conner	Biochemistry	University of North Texas
Kent, Jesse	Physics	University of North Texas
Kromidas, Eric	Psychology	Wichita State University
Kwon, Jae	Health & Society/Sociology	University of Texas at Austin
Leon, Marcela	Psychology	University of North Texas
Leung, Caroline	Chemistry	University of North Texas
Licon, Jonathan	Biochemistry	West Texas A&M University
Long, Nicolas	Mechanical Engineering	University of Texas at Arlington
Lopez, Miguel	Nutritional Sciences - Coordinated Dietetics	Texas Christian University
Luevano, Edgardo	Bio-chem	Southern Nazarene University
Maldonado, Adrian	Biology/Math	Sul Ross State University
Marroquin, Edgar	CS & Biology	University of Texas at Austin
Martinez, Claudia	Spanish	University of Texas at Arlington
Mast, Arqa	Civil Engineering	University of Texas at Austin
Maxie, LaDee	African & African Diaspora	University of Texas at Austin
McCalidaine, Ella	Sociology	Eastern Washington University
McGill, Jazmine	Sociology	University of North Texas
McNease, Georgi	Criminal Justice	Sam Houston State University
Melendez, Edith	Psychology - School counseling-education	Eastern Washington University
Molina, Crystal	Psychology/Criminal Justice	Texas Christian University
Molinar, Aja	Psychology	Wichita State University
Moore, Cheyenne	English	Sam Houston State University
Moore, Everett	Psychology	Sam Houston State University
Mullins, Angela	Psychology	Southern Nazarene University
Muniz, Fabiola	Communication	Sul Ross State University
Munoz, Daisy	Communicaiton	University of Oklahoma
Naquin-Eason, Amandamay	Psychology and Criminal Justice	Sam Houston State University
Navarro, Eric	Zoology	Washington State University
Negron Rolon, Christian	Biology	Cleveland State University
Noah, Emilie	Psychology	Southern Nazarene University
Obi, Cassie	Chemistry	University of North Texas

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O'Dell, Kylee	Physics	East Central University
Olguin-Aguirre, Rosario	Psychology	University of North Texas
O'Neil, Hannah	Social Work	Kansas State University
Ortego, Pamela	Political Science & Journalism	University of Oklahoma
Ortiz, Emmanuel	Biology	University of North Texas
Ortiz, Michael	Biology	Cleveland State University
Palacios, Karen	Sociology	Kansas State University
Parra, Andres	Marketing	Sam Houston State University
Parsons, Tamara	History	Sam Houston State University
Pecina, David	Mechanical Energy Engineering	University of North Texas
Pena, Alonso	English/ American Ethnic Studies	Kansas State University
Penton, Melissa	Molecular Biology	East Central University
Perez, Idalys	History	University of North Texas
Pinales, Stephany	Psychology	Sam Houston State University
Porter, Baylee	Psychology/Biology	Kansas State University
Quarnstrom, Donya	Economics	Eastern Washington University
Quinonez, Jasmin	Criminal Justice	Sul Ross State University
Ramirez, Lenor	Psychology	University of Texas at Austin
Ramsey, Erin	Psychology	Southern Nazarene University
Rodriguez, Vanessa	Psychology	University of Texas at Austin
Rodriguez, Lourdes	Psychology	University of North Texas
Romena, Nikki	Psychology/Criminal Justice	Texas Christian University
Romero, Alexys	Mechanical Engineering	West Texas A&M University
Rosas, Audel	International Affairs	Eastern Washington University
Ross, Kyler	Chemistry	Southern Nazarene University
Russell, Rebekah	Information Studies	University of Oklahoma
Schwartz, Amelia	Geography	University of Oklahoma
Sherrod, Summer	Geography	University of North Texas
Shitanda, Dinah	Accounting	Texas Christian University
Short, Tristyn	Psychology	Southern Nazarene University
Smith, Robert P	Mechanical & Energy Engineering	University of North Texas
Spencer, Telissa	Kinesiology	University of Texas at Austin
Stearns, Zoe	Mathematics	University of Oklahoma
Swabowicz, Ely	Nursing	Texas Christian University
Swanson, Shalonda	Sociology	Cleveland State University
Tademy, Kaitlin	Mathematics	Sam Houston State University
Tarpley Johnson, Davida	Global E-Learning/Psychology	Texas A&M University-Commerce
Triece, Kelly	English Literature	University of North Texas
Vandebrake, Lauren	Biomedical Engineering	University of North Texas
Velasco, Lidia	Anthropology	Eastern Washington University
Velasquez, Roxana	Bio-chem	Southern Nazarene University
Viluethpad, Carol	Biomedical Engineering	Wichita State University
Wackler, Kamree	Speech Pathology	Texas Christian University
Wages, Dylan	Biomedical Engineering	University of North Texas

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Wagner, Courtney	Psychology	University of Wisconsin-Stout
Wilkins, Monique	Psychology	Texas A&M University-Commerce
Williams Kang, Katie	Microbiology	University of Texas at Arlington
Yarbrough, Joshua	Psychology	University of North Texas
Zayas, Minerva	Women and Gender Studies and Psychology	Eastern Washington University
Zuniga, Baltaza	Biochemistry	University of Texas at Austin

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-Topmanagementdegrees.com

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-Topmanagementdegrees.com

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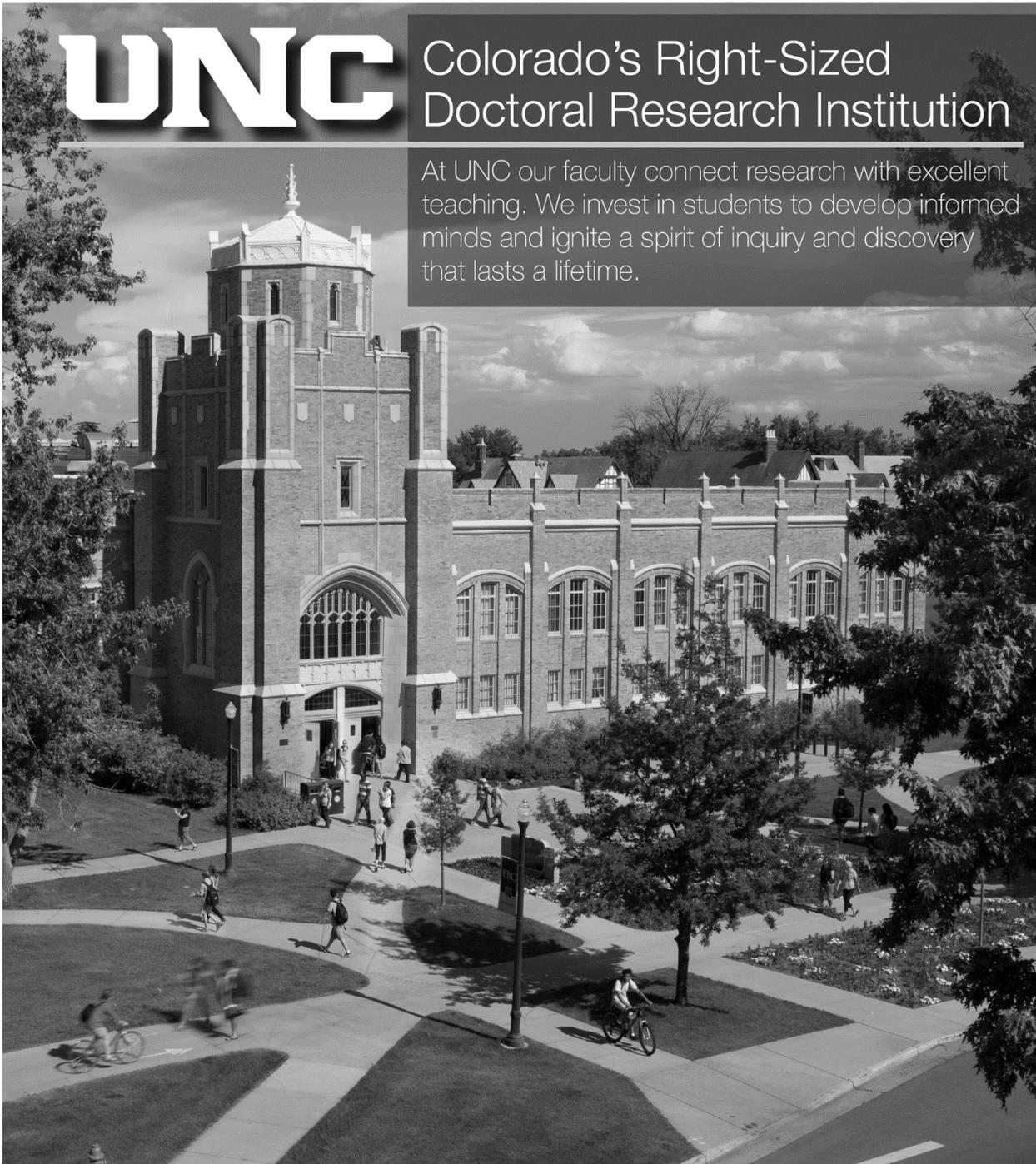


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Early application deadline Jan 15th, 2017
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M.S. in Hospitality Management
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Contact
Dee K. Knight, Ph.D.
College of Merchandising, Hospitality and Tourism
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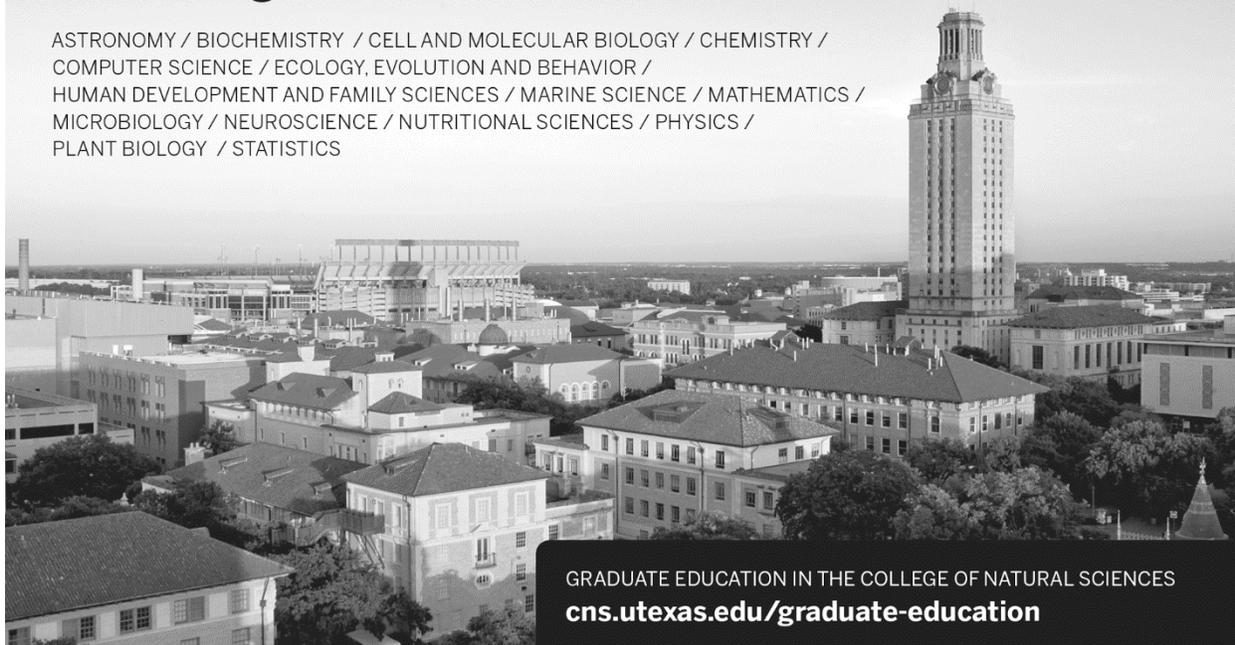
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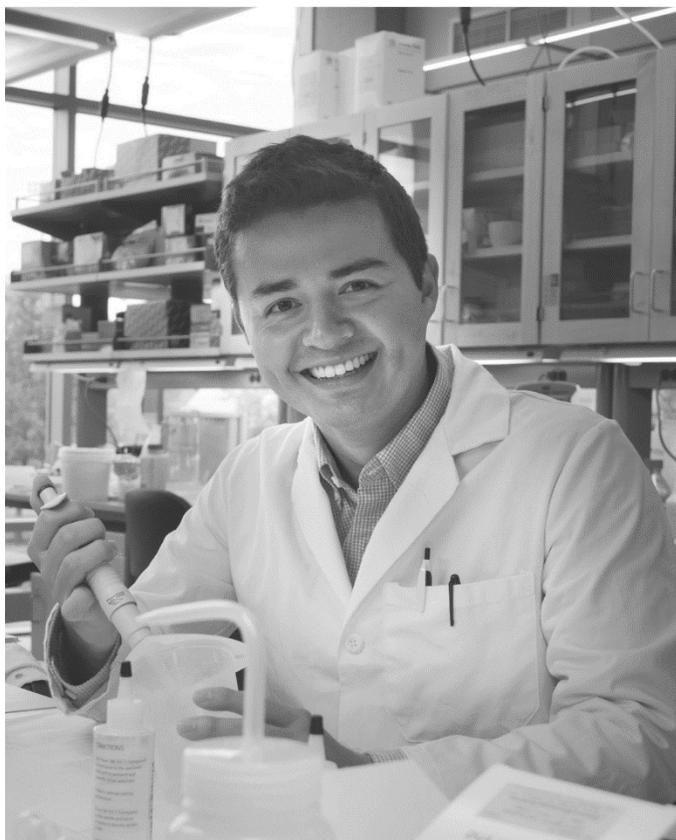
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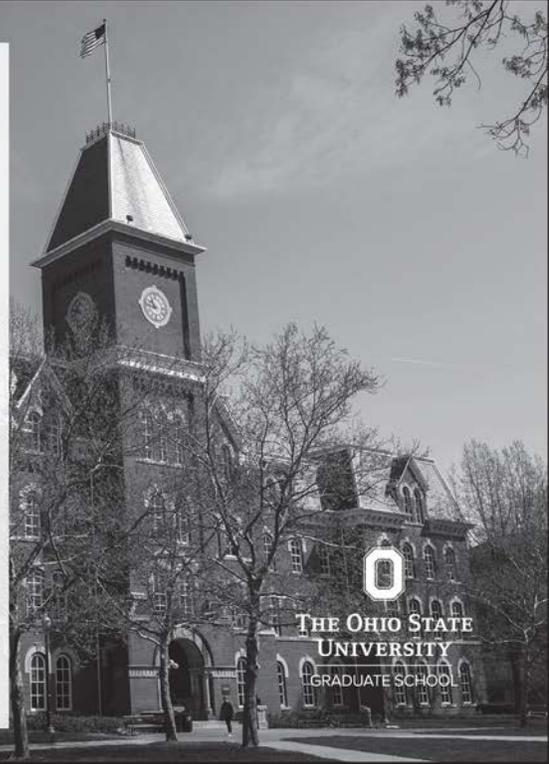
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