2015 University of New Mexico
McNair Scholars Research Conference

Discover the Power of Networking

October 1 & 2, 2015
Albuquerque, N.M.

mcnair.unm.edu
Welcome to the University of New Mexico
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October 1, 2015

Dear McNair Scholars and Conference Participants:

Welcome to The University of New Mexico! I am proud that UNM is hosting the UNM Ronald E. McNair Scholars Research Conference. The McNair Scholars Program represents an excellent opportunity for undergraduate students to be involved first hand in what makes a research university great – the creation of knowledge. I am especially proud of our UNM McNair scholars, as well as all of you who have joined us from institutions across the country.

As a public flagship research university, UNM faculty, staff, and students work day in and day out in pursuit of our mission of teaching, research, and service. The McNair Program engages you in these activities first-hand: conducting research to create new knowledge, disseminating that knowledge through conferences such as this, and then working to use that knowledge to improve the communities in which we live. Your time in the McNair Program provides a strong foundation in research and scholarship, and prepares you for work in graduate school and beyond, where you will be poised to make significant contributions to your institution, your discipline, and your community.

I urge you to take advantage of your time at UNM and learn of the many great programs we offer – spend time with other McNair Scholars, talk with our graduate students, meet our faculty, and learn more about the exciting research and opportunities that await you in graduate school.

Again, welcome to The University of New Mexico, I hope you enjoy your time in Albuquerque, and have a productive and rewarding conference experience.

Best regards,

Robert G. Frank
President
Vice President for Student Affairs

September 23, 2015

Dear Conference Participants,

On behalf of the University of New Mexico, we welcome you all to our 2015 Ronald E. McNair Research Conference. We are pleased to welcome such a promising young group of scholars to our University and hope you will enjoy your stay here. We anticipate that during your stay you will learn much about our beautiful state, and our host institution, the University of New Mexico, which boasts many fine graduate programs and facilities. This conference will expose you to the following:

- Learn fundamentals of Leadership Development
- Present research to a diverse faculty panel in your field of study
- Present research to your peers and faculty from across the country
- Meet with professionals, graduate students, and recruiters from graduate programs from across the country
- Provide you with cultural experiences unique to New Mexico and learn about applying to graduate school and to become a leader

The conference is organized under the auspices of Student Services, which is a part of the UNM Division of Student Affairs. The program is hosted by the College Enrichment and Outreach Programs, which are designed to serve and assist low-income, first generation, traditionally underrepresented college students and students with disabilities to progress through the academic pipeline from middle school to post-baccalaureate programs.

We hope that your stay at UNM will be a pleasant and productive one, and you will consider us as you search for a graduate school.

Sincerely,

Eliseo “Cheo” Torres
Vice President for Student Affairs
University of New Mexico
Dear conference Attendees,

Welcome to Albuquerque and the University of New Mexico (UNM). We are excited to have you join us at our national conference showcasing scholars from across the nation. The research that you will be presenting at the 2015 Ronald E. McNair Research Conference is instrumental in developing your knowledge and skills for graduate school.

As the future leaders and educators for our nation, I hope that your experience here at this conference will help you grow in your area of specialty.

While you are here, I encourage you to visit the University of New Mexico campus and talk to the faculty, students and staff to take advantage of the visit and fulfill a part of your goals around campus visit and search for graduate schools. We will work to make this conference and your visit to UNM one of the best undergraduate research conference experiences you will have. This conference is the opportunity to get immediate feedback from faculty and peers. We are extremely fortunate to have support from our faculty with this conference, as they understand the importance of such an experience, and network with students, faculty and staff who may be your colleagues in the future.

Our goal is to provide opportunities for as many scholars as possible, and then have each one of those individuals turn around and reach back and provide opportunities for others to be successful.

I wish you all the best at the conference and in your professional endeavors.

Best wishes,

Tim E. Gutierrez, Ed.D.

Associate Vice President for Student Services
The University of New Mexico
# Day 1 Conference Agenda

**Thursday, October 1, 2015**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 8:00 a.m. – 10:00 a.m. | **Conference Registration**  
Ballroom A, Student Union Building (SUB) |
| 9:00 a.m. – 10:15 a.m.   | **Breakfast & Networking Event**  
Welcome Address: Dr. Eliseo “Cheo” Torres, UNM Vice President for Student Affairs  
Networking Activity: UNM Career Services  
Ballroom A, Student Union Building (SUB) |
| 10:30 a.m. – 11:50 a.m.   | **Graduate & Professional School Fair**  
Ballrooms B & C, Student Union Building (SUB) |
| 12:00 p.m. – 1:30 p.m.    | **Lunch & McNair Alumni Ph.D. Speaker,**  
Welcome Address: Dr. Michael Dougher, UNM Vice President for Research  
McNair Alumni Ph.D. Speaker: Dr. Mia Sosa-Provencio, UNM Assistant Professor: UNM Dept. Teacher Ed, Educational Leadership & Policy  
Ballroom A, Student Union Building (SUB) |
| 1:45 p.m. – 3:15 p.m.    | **Research Poster Presentations & Networking**  
Atrium, Student Union Building (SUB) Level 1 |
| 3:15 p.m. – 5:15 p.m.    | **Campus Tour & Workshops (Student and Staff)**  
Tour leaves from SUB Atrium, Workshops in the following rooms on level 3 of the SUB: Cherry/Silver, Luminaria, Mirage/Thunderbird and Spirit/Trailblazer  
See page 7 for detailed workshop schedule |
| 6:15 p.m. – 8:15 p.m.    | **Conference Banquet Dinner & Keynote**  
Welcome Address: Dr. Julie Coonrod, UNM Dean of Graduate Studies, Professor of Civil Engineering  
Keynote Speaker: Dr. Kenneth Armijo, Research Scientist and R & D Engineer, Sandia National Laboratories  
Student Union Ballroom C |
## Day 2 Conference Agenda
### Friday, October 2, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:15 a.m. – 9:15 a.m.</td>
<td><strong>Breakfast &amp; Morning Address:</strong> Dr. Robert Jefferson, UNM Director of Africana Studies, Associate Professor: African American Studies Ballroom C, Student Union Building (SUB)</td>
</tr>
<tr>
<td>9:20 a.m. – 12:10 p.m.</td>
<td><strong>Oral Research Presentations: Sessions 1 – 7</strong>&lt;br&gt;Note: Session dates and times vary from 9:20 a.m. to 11:50 a.m.&lt;br&gt;<strong>SUB Level 3, Rooms:</strong> Acoma A, Acoma B, Fiesta A, Fiesta B, Santa Ana A, Santa Ana B and Spirit/Trailblazer&lt;br&gt;*See pages 14-25 for detailed schedule</td>
</tr>
<tr>
<td>12:15 p.m. – 1:15 p.m.</td>
<td><strong>Lunch</strong>&lt;br&gt;Ballroom C, Student Union Building (SUB)</td>
</tr>
<tr>
<td>1:20 p.m. – 3:25 p.m.</td>
<td><strong>Oral Research Presentations: Sessions 8 – 12</strong>&lt;br&gt;Note: Session dates and times vary from 1:25 p.m. to 3:05 p.m.&lt;br&gt;<strong>SUB Level 3, Rooms:</strong> Acoma A, Acoma B, Fiesta A, Fiesta B, Santa Ana A, Santa Ana B and Spirit/Trailblazer&lt;br&gt;*See pages 14-25 for detailed schedule</td>
</tr>
<tr>
<td>3:30 p.m. – 4:00 p.m.</td>
<td><strong>Closing Ceremony</strong>&lt;br&gt;Ballroom C, Student Union Building (SUB)</td>
</tr>
</tbody>
</table>
Campus Tour and Workshops
Thursday, October 1, 2015 from 3:30 -5:30 p.m.

**Campus Tour:** Leaves from the SUB Atrium at 3:30 p.m.

**McNair Staff Workshop:** Cherry and Silver Room, SUB 3rd Level at 3:30 p.m. Hosted by Andrew Gonzalez, Director of UNM College Enrichment and Outreach Programs.

**Graduate School Funding Workshop:** Mirage/Thunderbird Rooms, SUB 3rd Level at 3:30 p.m. Hosted by Margaret Gonzales, UNM Graduate School Senior Operations Manager and McNair Alumni.

**Psychology Graduate Student Panel & Information Session:** *Is a Career in Psychology right for me?* Luminaria Room, SUB 3rd Level at 4:30 p.m. Graduate Student Presenters: Jeremiah Simmons (4th year PhD student in Clinical Concentration), Justina Avila (2nd year PhD Student in Clinical Concentration), Rebecca Reiger (3rd year PhD Student in Clinical Concentration), Gabriela Lopez (3rd year PhD Student in Clinical Concentration), Kelsey Serier (2nd year PhD student in Clinical Concentration), Jen Benson (5th year PhD student in Clinical Concentration) and Patricia Rodriguez (5th year PhD student in Clinical Concentration).

**STEM Guide to Graduate School:** Spirit/Trailblazer Rooms, SUB 3rd Level at 4:30 P.M. Hosted by Dr. Sara E. Patterson, Director *SciMed Graduate Research Scholars Program*, University of Wisconsin-Madison. The Science and Medicine Graduate Research Scholars (SciMed GRS) program is unique fellowship program offering professional development, community resources, and funding opportunity for underrepresented graduate students in the College of Agricultural and Life Sciences, the School of Medicine and Public Health, School of Pharmacy and School of Veterinary Medicine.
Acknowledgements

Conference Committee:
Ricardo Romero, McNair & ROP Director
Kyle Farris, McNair & ROP Advisor
Rebeca Gurrola, Graduate Assistant, McNair & ROP
Gabriella Bloise, Program Assistant, McNair & ROP
Nicole Garcia, Administrative Assistant, McNair & ROP
Tara Hackel, UNM STEM Collaborative
Mary Cianflone, UNM STEM Collaborative
Andrew Gonzalez, M.A., CEOP Director

Special Thanks:
Robert Christner, Manager, Information Services, CEOP/ARC & webmaster for our website
Patrick Patten, Accountant, Bursar’s Office & webmaster of our registration website
UNM BOOKSTORE for donating door prizes
NUSENDA Federal Credit Union for donating USB drives, notebooks and pens

Thank You Sponsors:

• DIVISION OF STUDENT AFFAIRS

• UNM STEM COLLABORATIVE
Division of Student Affairs

Academic services & student life programs

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AIR FORCE ROTC  EL CENTRO DE LA RAZA
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AMERICAN INDIAN STUDENT SERVICES  NATIONAL SECURITY STUDIES PROGRAM
ARMY ROTC  RECREATIONAL SERVICES
CAREER SERVICES  RESIDENCE LIFE & STUDENT HOUSING
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COLLEGE ENRICHMENT & OUTREACH PROGRAMS  STUDENT UNION BUILDING
COMMUNITY ENGAGEMENT CENTER  TITLE V STEM GATEWAY

UNM Main Campus • Scholes Hall 229
505-277-0952 • studentaffairs.unm.edu
Participating Institutions:

Abilene Christian University (Texas)
Boise State University
Louisiana State University
Mercy College (NY)
Our Lady of the Lake University (Texas)
Sam Houston State University (Texas)
St. Edward’s University (Texas)
St. Mary’s University (Texas)
Sul Ross State University (Texas)
Trinity University (Texas)
University of Arizona
University of California-Berkeley
University of Mississippi
University of New Mexico
University of Northern Colorado
University of Oklahoma
University of Wisconsin-La Crosse
University of Wisconsin-Madison
University of Wyoming
Washington State University
Thank you Volunteers!
We want to recognize our volunteers and thank them for taking time out of their busy schedules to make this event a success!

Kim Benally  
Brittany Tabor  
Jose Villar  
Sergio Najera  
Dr. Cynthia Young  
Cree Gattison  
Dr. Kate Krause  
Dr. Amy Neel  
Dr. Ann Gibson  
Eric Karikari  
Nina Cooper  
Maria Elwan  
Seonah Kim  
Dawn Blue Sky-Hill  
Rosa Isela Cervantes  
Dr. Benjamin Clark  
Amy Hawkins  
Sonia Gipson Rankin  
Erin Weddington  
Gloria Valderrama  
Abigail Robertson  
Demetrius Gloster  
Dr. Jeffrey Long  
Dr. Susanne Anderson-Riedel  
Natalie Robinson Bruner  
Lauren Perry  
Dr. Patricia Boverie  
Dr. Suzanne Schadl  
Dr. Roli Varma  
Godfried Asante  
Dr. Miguel Lopez  
Laura Belmonte  
Dr. George Sieg  
Danielle Taylor  
Dr. Ravi Jain  
Ian Winchester  
A.K. Sartor  
Dr. Sever Bordeianu  
Dr. Scott Collins  
Catherine Riskie  
Catherine Hubka  
Audrey Padilla  
Michael Hunter  
Kelsey Serier  
Stacy Collier  
Andrew Carey  
Jacob Wolff  
Elani Wiest  
Dr. Sarah Townsend  
David Nunnally  
Colin Henry  
Brooke Abrams  
Jennifer Cardinal  
Dr. Luci Tapahonson  
Dr. Lorenda Belone  
Deanna-Sanchez-Mulcahy  
Noemi Gutierrez  
Dr. Carolina Aguirre  
Angelina Grey  
Katie Zemlick  
Dr. Charlie Steen  
Dr. Numair Latif  
Stephen Griego  
Dr. Kency Cornejo  
Dr. Lindsay Worthington  
Dr. David Rauschkolb  
Dr. Jaelyn deMaria  
Lisa Sanchez  
Brad Jeffrey  
Dr. Manuel Montoya  
Dr. Carlos Lopez-Leiva  
Clara Bass  
Dr. Holly E. Jacobson  
Dr. Claudia Mitchell  
Dr. Louis Scuderi  
Dr. Christina Perry  
Brandon Dixon  
Leone Young  
Tessa Cappelle  
Rekha Rao  
Aaron Anderson  
Simon Cordero  
Talal Saint-Lot  
Callie French  
Dr. Robert Jefferson  
Dr. Veena Tikare  
Dr. Sara Patterson

Names appear in the order they volunteered
Dr. Mia Angélica Sosa-Provencio was born and raised in Las Cruces, New Mexico. She studied Language Arts and Bilingual Education at UNM and is currently an Assistant Professor in the Department of Teacher Education, Educational Leadership, and Policy (TEELP) at UNM. Previous to earning her PhD in Curriculum and Instruction and Critical Pedagogies from NMSU, Mia taught 9-12 Language Arts for seven years at Rio Grande High School in Albuquerque’s South Valley.

Her current research focuses on pedagogies of resilience and strength among educators who have themselves lived histories of resistance to oppression at the intersection of race, class, gender, sexuality, language/dialect, residency status, and ability. Mia frames her research within the cultural wisdom of educators who see their work as a continuation of the legacy of fighting oppression by constructing academically rigorous, culturally fortifying schooling spaces with an eye toward social transformation. This research informs Mia’s work with students at the BA, MA, and doctoral level to situate schools as reclamation sites of dignity and a means toward academic, intellectual richness.

Dr. Sosa-Provencio is currently serving as embedded faculty at Rio Grande High School. In this capacity within the Department of Secondary Education, Mia is designing a multilayered model of teacher preparation which brings together Rio Grande High School students alongside classroom teachers, community members, and Bachelor's and Master's students of education in order to co-design, teach, and co-reflect on classroom curriculum taught in the classrooms of our RGHS teacher partners. This model enables UNM education students and the wider community to participate in and/or inform a model which conceptualizes and enacts authentic social action/social justice curriculum and reflect upon said curriculum in a community of learners who seek better outcomes for all youth, especially youth from non-dominant communities and groups who experience ongoing marginalization in schooling and society.
Keynote Speaker, Dr. Kenneth Armijo:

Dr. Kenneth Armijo is a research scientist and R&D Engineer who holds a Ph.D. in Mechanical Engineering from the University of California, Berkeley with minors in Energy and Resources, and business credentials in Management of Technology from Berkeley’s Haas School of Business. Dr. Armijo also received a Masters in Science in Mechanical Engineering from Berkeley. Currently, Dr. Armijo’s research spans both United States D.O.E. Solar programs in Concentrating Solar Thermal Energy Technologies, Photovoltaics (PV) and Distributed Energy Technologies. His Ph.D. research investigated the development of heat pipes for enhancing the efficiency and waste energy recovery of solar-PV technologies.

Dr. Armijo’s research and professional interests are in alternative energy technologies and sustainability, as they pertain to innovation, business and policy. He currently holds four patents on a broad range of technologies, has published over thirty publications and has had three startup companies in wireless infant/elderly health monitoring systems, solar water heating technologies and in organic sustainable agriculture.

In addition to this work, Dr. Armijo is also involved in collaborative research which includes: “Sustainable Solar Water Heaters for the Developing World”, “Pesticide Protection Equipment for Migrant Farm-Workers” and “Platform Retrofits for Ocean Geothermal Energy Recovery and Desalination,” with field work and travel to Guatemala, Mexico, South America and across Native American reservations. These projects have received national attention for their innovation in features published on CNN, Discovery Magazine and PBS, among others.

A recipient of several prestigious national fellowships from NASA, the National Academies of Science, the National Science Foundation, the Alfred P. Sloan Foundation and GEM, Dr. Armijo has and continues to use his scholarship experiences, as well as his research experience with NASA Johnson Space Center, Sandia National Laboratories and Stanford Linear Accelerator Center to educate youth in the sciences. In so doing, he routinely facilitates science, energy and sustainability education projects and programs throughout New Mexico and California.

Dr. Kenneth Armijo is a proud native New Mexican who has provided technology development assistance through the New Mexico Small Business Assistance (NMSBA) program and is an active participant in Lab-to-Venture initiatives to help small businesses innovate to become successful. He currently also mentors small renewable energy, desalination and sustainable agriculture companies, both locally in New Mexico and nationally, as they progress through the business development process. He has also proven innovation success in reducing irrigation water consumption for his family’s New Mexico chile pepper farm. He also currently holds board positions on several city and state educational, economic and civic organizations, such as the Society of Hispanic Engineers and STEMAbq. He credits his success to the upbringing he experienced growing up on this small farm, in a very rural community, as the initial catalyst for his inquisitive nature. An avid musician, Kenneth can sometimes be found playing his trumpet or drums at local venues.
<table>
<thead>
<tr>
<th>Oral Presentation Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral Presentation Session #1, 9:20 – 9:40 a.m.</td>
</tr>
</tbody>
</table>
| **Kathie Beasley**: University of Wyoming  
*Informing the Market: Consumers’ Willingness to Pay for Shrimp Produced in Wyoming and Oregon as a Possible Off Set to Mangrove Deforestation* | Room  
Fiesta A |
| **Shaobeny Johnson**: Abilene Christian University  
*Liberated Divinity: The Experience of African American Females in Pastoral Leadership* | Room  
Spirit/Trailblazer |
| **Bridget Llanes**: University of New Mexico  
*Using Phyto-Remediation and Community-Based Participatory Research in the Remediation of the Kirkland Air Force Base Jet Fuel Spill* | Room  
Santa Ana A |
| **Ramiro Ramirez**: Our Lady of the Lake University  
*Computer Simulation of the Anoplophora Glabripennis* | Room  
Fiesta B |
| **Yaritza Ruiz**: University of New Mexico  
*Listener Profiles for Loud and Habitual Speech in Parkinson’s Disease* | Room  
Acoma A |
<table>
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<tr>
<th>Oral Presentation Session #2, 9:45 – 10:05 a.m.</th>
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<tbody>
<tr>
<td><strong>Brittney Arevalo:</strong> University of Wyoming</td>
</tr>
<tr>
<td><em>Applying the International Classification of Functioning, Disability and Health (ICF) to Parkinson’s disease</em></td>
</tr>
<tr>
<td><strong>Diana Michelle Hernandez:</strong> St. Edward’s University</td>
</tr>
<tr>
<td><em>Eco-Feminist Theology in Mass Effect, the Videogame</em></td>
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<tr>
<td><strong>Antonio Macias:</strong> University of New Mexico</td>
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<tr>
<td><em>The Lifestyle and Academic Achievement Study (LAAS)</em></td>
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<tr>
<td><strong>Jorge Rodela:</strong> Sul Ross State University</td>
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<tr>
<td><em>Effects of Arginine in Equine Athletes</em></td>
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<tr>
<td><strong>Sonora Rodriguez:</strong> University of New Mexico</td>
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<tr>
<td><em>Environmental Justice and Environmental Gentrification in Planning: A Case Study of the Historic Sawmill Community</em></td>
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<tr>
<td>Oral Presentation Schedule</td>
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</tr>
<tr>
<td><strong>Oral Presentation Session #3, 10:10 – 10:30 a.m.</strong></td>
</tr>
<tr>
<td><strong>Onesimus Al-Amin:</strong> University of New Mexico</td>
</tr>
<tr>
<td><em>The Preschool to Prison Pipeline: Sentencing Disparities as a Racial Project</em></td>
</tr>
<tr>
<td>Room Spirit/Trailblazer</td>
</tr>
<tr>
<td><strong>Adriana Aramburu:</strong> University of New Mexico</td>
</tr>
<tr>
<td><em>Health Disparities within the Hispanic Community</em></td>
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<tr>
<td>Room Acoma B</td>
</tr>
<tr>
<td><strong>Curtis Green Eneix:</strong> Boise State University</td>
</tr>
<tr>
<td><em>First-Generation College Students, Identity Labels, Empowerment</em></td>
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<tr>
<td>Room Fiesta A</td>
</tr>
<tr>
<td><strong>Divana Olivas:</strong> University of New Mexico</td>
</tr>
<tr>
<td><em>Food and Cultural Identity: An Institutional Analysis of Community and Home Food Environments, in El Cerro, New Mexico</em></td>
</tr>
<tr>
<td>Room Santa Ana A</td>
</tr>
<tr>
<td><strong>Isavannah Reyes:</strong> St. Edward’s University</td>
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<tr>
<td><em>Comparison of Differential Expression Employing 3’ Tag Counting</em></td>
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<tr>
<td>Room Fiesta B</td>
</tr>
<tr>
<td><strong>Regine Yaites:</strong> Abilene Christian University</td>
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<tr>
<td><em>Long Term Effects of Speech Therapy in Aphasia</em></td>
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<tr>
<td>Room Acoma A</td>
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<tr>
<td>Oral Presentation Schedule</td>
</tr>
<tr>
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</tr>
<tr>
<td><strong>Oral Presentation Session #4, 10:35 – 10:55 a.m.</strong></td>
</tr>
</tbody>
</table>
| **Luis Aguilar Oviedo**: Boise State University  
*Digital Access and Information Networks for Hispanics in Southern Idaho* | Room Santa Ana A |
| **Franki Anaya**: University of New Mexico  
*How Spatially Biased Is The Terrestrial Fossil Record?: A Quantitative Analysis Using Modern Mammalian Species As A Proxy* | Room Acoma A |
| **Merary Bautista**: Sam Houston State University  
*Bee Species Survey* | Room Fiesta B |
| **Chanda Begin**: University of New Mexico  
*Training Narratives among Disaster and Emergency Medical Responders* | Room Acoma B |
| **Brittany Clark**: Louisiana State University  
*More Than Welfare Queens and Strong Black Women: Black Mothers in the Films “Precious” and “Claudine”* | Room Spirit/Trailblazer |
| **Nathalie Daniel**: University of New Mexico  
*Reviewing the Work Values of Millennials* | Room Santa Ana B |
| **Briana Sais**: University of New Mexico  
*I’m More American than You!* | Room Fiesta A |
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Title</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ana Garcia-Ceballos</td>
<td>University of Wyoming</td>
<td>Calculating Minimum and Maximum Horizontal Stress from Anisotropic Properties in the Rock Springs Uplift, Wyoming, USA</td>
<td>Acoma A</td>
</tr>
<tr>
<td>Cassie Green</td>
<td>Boise State University</td>
<td>Agitated to Clean: How the Washing Machine Changed Life for the American Woman</td>
<td>Spirit/Trailblazer</td>
</tr>
<tr>
<td>Jaimie Lawhorn</td>
<td>Sul Ross State University</td>
<td>Insect Diversities In Areas Impacted By Biological Control Of Saltcedar (Tamarix Spp.) In West Texas</td>
<td>Fiesta B</td>
</tr>
<tr>
<td>Matthew Moyd</td>
<td>University of New Mexico</td>
<td>Folic Acid Intake in Women of Childbearing Age Who Follow a Gluten-Free Diet</td>
<td>Acoma B</td>
</tr>
<tr>
<td>Apollonia Pina</td>
<td>University of Oklahoma</td>
<td>Headlands Native Student Enrichment Program: Research and Renewal</td>
<td>Fiesta A</td>
</tr>
<tr>
<td>Ione Rodriguez</td>
<td>Our Lady of the Lake University</td>
<td>Perception of Hostility in High and Low Trait Aggressive Participants</td>
<td>Santa Ana B</td>
</tr>
<tr>
<td>Rebecca Zapata</td>
<td>St. Edward’s University</td>
<td>Women of Color and Barriers in Organizational Leadership</td>
<td>Santa Ana A</td>
</tr>
</tbody>
</table>
# Oral Presentation Schedule

## Oral Presentation Session #6, 11:25 – 11:45 a.m.

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Affiliation</th>
<th>Title</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annie Bailey</td>
<td>Abilene Christian University</td>
<td>A Measure of Participants’ Reports of the Effectiveness of Study Abroad to Influence Cultural Perceptions</td>
<td>Santa Ana A</td>
</tr>
<tr>
<td>Valentina Chee</td>
<td>University of New Mexico</td>
<td>Sugar Sweetened Beverages Among Native American Youth</td>
<td>Acoma B</td>
</tr>
<tr>
<td>Tysheann Grant</td>
<td>University of Mississippi</td>
<td>Can Survival Processing Override the Effects of Collaborative Inhibition on Recall?</td>
<td>Santa Ana B</td>
</tr>
<tr>
<td>Diana Macias</td>
<td>University of Wisconsin-Madison</td>
<td>Coordination of Stem and Leaf Hydraulics in Four Co-occurring Species</td>
<td>Fiesta B</td>
</tr>
<tr>
<td>Savannah Rivas</td>
<td>University of New Mexico</td>
<td>Computational and Probabilistic Perspectives on Language Acquisition</td>
<td>Fiesta A</td>
</tr>
<tr>
<td>Karina Rodriguez</td>
<td>Sul Ross State University</td>
<td>The Effect of the Mexican War on Drugs on Unexpected Migration from 2006-2012</td>
<td>Spirit/ Trailblazer</td>
</tr>
<tr>
<td>Blake Scott</td>
<td>University of New Mexico</td>
<td>The Kosi River</td>
<td>Acoma A</td>
</tr>
<tr>
<td>Oral Presentation Session #7, 11:50 a.m. – 12:10 p.m.</td>
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<tr>
<td><strong>Hannah Chappell:</strong> Abilene Christian University</td>
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<td><em>Cellphone Use as Nonverbal Communication: A</em></td>
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<td><em>Cross-Cultural Application of a Communication Model</em></td>
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<td><strong>Briana Cuestas:</strong> University of New Mexico</td>
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<td><em>Validation of the Dance Aerobic Fitness Test (DAFT)</em></td>
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<td><strong>Courtney Deisch:</strong> University of New Mexico</td>
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<td><em>Nationalist Secession Movements In Federated</em></td>
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<td><em>States: An Analysis Of The Phenomena Of Separatist</em></td>
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<td><em>Movements Using The Cases Of Scotland, Quebec,</em></td>
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<td><em>And Catalonia</em></td>
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<td><strong>Jordan McCannon:</strong> St. Edward’s University</td>
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<td><em>Gender Influences and Sibling Dynamics Within</em></td>
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<td><em>Familial Care</em></td>
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<td><strong>Maria Mendez:</strong> University of New Mexico</td>
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<td><em>Adolescent Perspectives on Colonia Life in the El</em></td>
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<td><em>Paso/Ciudad Juarez Borderlands</em></td>
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<td><strong>Jacqueline Peña:</strong> Boise State University</td>
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<td><em>Is Diet Selection by Greater Sage-Grouse Influenced</em></td>
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<td><em>by Biomass Availability or Toxins?</em></td>
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<td><strong>Kristi Rendon:</strong> University of New Mexico</td>
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<td><em>What Are The Health Impacts From Us Nuclear Mining</em></td>
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<td><em>Of Radioactive Uranium Materials In New Mexico?</em></td>
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<td>Oral Presentation Session #8, 1:25 – 1:45 p.m.</td>
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| **Jessica Estrada**: Sam Houston State University  
*Medical Apparel for Disability Accommodations: Innovative Designs* | Room Acoma A |
| **Kayla-Ann Hawley**: University of Wyoming  
*Dynamics at Work in the Lives of Street-Involved Women* | Room Santa Ana A |
| **Fadi Jamaleddin**: University of New Mexico  
*A Community-Based Participatory Diabetes Education Research Project With Casa De Salud In The South Valley* | Room Acoma B |
| **Kimberly Luna**: Boise State University  
*The Impact of Changes in Immigration Policy on Idaho’s Agricultural Workers* | Room Fiesta B |
| **Kevin Lwango**: CUNY-John Jay College of Criminal Justice  
*Nation and State-building in Post-Colonial Africa: Case Studies and Analysis* | Room Fiesta A |
| **Fabiola Vargas**: Abilene Christian University  
*Aggression and Maternal Discipline in Adolescence* | Room Santa Ana B |
| **James Westphall**: University of New Mexico  
*Fanfiction Studies* | Room Spirit/Trailblazer |
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<td><strong>Oral Presentation Session #9, 1:50 – 2:10 p.m.</strong></td>
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| **Darren Brown**: University of New Mexico  
*Does Memorization Of Religious Material By Religious Persons Increase Working Memory Ability When Compared To A Non-Religious Group?*  
Room Spirit/Trailblazer |
| **Ariana Garcia**: Washington State University  
*Relation of Music Videos to Sexual Consent Negotiation*  
Room Santa Ana A |
| **Laura Hill**: Abilene Christian University  
*Love is a Battlefield: Experience of Love in Relation to Depression*  
Room Santa Ana B |
| **Kevin Rodriguez**: Our Lady of the Lake University  
*Analyzing the Effects of Humanistic Information Toward the Support of Capital Punishment*  
Room Fiesta B |
| **Meilinn Tram**: University of New Mexico  
*Androgen Receptor Knockout In Ovarian Theca Cells Results In Altered Steroidogenesis In Diestrous Female Mice*  
Room Acoma A |
| **Briana Villegas**: University of New Mexico  
*Education As A Social Determinant Of Health*  
Room Acoma B |
| **Rex Yeigh**: University of Wyoming  
*Planetary Photometry using a Robotized Telescope*  
Room Fiesta A |
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<td><strong>Oral Presentation Session #10, 2:15 – 2:35 p.m.</strong></td>
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| **Gisela Angeles:** Our Lady of the Lake University  
*The Effect Of The Qulality And Types Of Relationships Between Students And Faculty Members In Middle School* | Room  
Fiesta A |
| **Nicole Baty:** University of New Mexico  
*Effects of Curcumin on Amyloid-β (A β) Aggregates on Induced Membrane Disruption* | Room  
Acoma A |
| **Christal Davis:** University of Mississippi  
*Perceptions and Attitudes Regarding Preparedness for Campus Crises: A Focus Group Study of Undergraduates at a Southern University* | Room  
Santa Ana A |
| **Dylan McCurdy:** University of Wyoming  
*The Environmental Sociology of American Buddhism* | Room  
Spirit/Trailblazer |
| **Elizabeth Torres:** University of New Mexico  
*Long-Term Effects of Transcranial Direct Current Stimulation in Conjunction with Post-Stroke Aphasia Language Therapy* | Room  
Fiesta B |
| **Nia Tyler:** Abilene Christian University  
*Hospital Billing: Who Pays The Most? A Comparison of Hospital Billing Between Public and Private Insured Patients* | Room  
Acoma B |
| **Bertha Valdez:** University of New Mexico  
*How Does Preschoolers’ Fear of the Dark Relate to Their Fear of Monsters?* | Room  
Santa Ana B |
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<th>Oral Presentation Session #11, 2:40 – 3:00 p.m.</th>
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<td><strong>Andrea Archer</strong>: Abilene Christian University</td>
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<td><em>For Those Who Can’t Speak: A Study of the Language</em></td>
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<td><em>Assessment of Bilingual Children/English Language Learners</em></td>
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<td><strong>Mika Armenta</strong>: University of New Mexico</td>
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<td><em>Modulating Emotion Perception with Non-Invasive Brain Stimulation and Meditation</em></td>
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<td><strong>Kevin Fettel</strong>: University of Wyoming</td>
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<td><em>Transient Receptor Potential Vanilloid Type 1 Expression Inhibits Presentations of Metabolic Syndrome</em></td>
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<td><strong>Kaylynn Gaines</strong>: University of Mississippi</td>
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<td><em>The Self-Rated Health Of Low-Socioeconomic Non-Hispanic Whites In Mississippi</em></td>
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<td><strong>Robert Jones</strong>: University of New Mexico</td>
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<td><em>Jewelry: The Retention of Cultural Identity, Native American Art History</em></td>
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<td><strong>Abdiel Ramirez</strong>: University of New Mexico</td>
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<td><em>Using Modern Dashboard Technology to Provide Insight into Academic Performances while Detecting Anomalies within these Performances</em></td>
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<td>Fiesta A</td>
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<td><strong>Pia Valdez</strong>: University of New Mexico</td>
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<td><em>Character Strengths, Well-Being, and Life Satisfaction</em></td>
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<td>Oral Presentation Session #12, 3:05 – 3:25 p.m.</td>
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| **Bereket Abera:** University of Northern Colorado  
*Examining The Refugee Students' Experience At Greeley Central High School From The Perspective Of Those Who Work With Them* | Room  
Fiesta A |
| **Geury Cruz:** John Jay College of Criminal Justice  
*The Effect of Interparental Conflict on Psychosocial Functioning in the Lives of Hispanic Young Adults* | Room  
Santa Ana A |
| **Derek Kuit:** University of New Mexico  
*Did You See That? An Attempt To Induce Suppression Of Attention Capture In A Cue Paradigm* | Room  
Santa Ana B |
| **Yvette Karina Ortega:** University of New Mexico  
*Vital Elements Behind Female Gender Disparities In Medical Physicians* | Room  
Acoma B |
| **Amalia Sanchez Parra:** University of New Mexico  
*Differential Gene Expression Observed in Schistosoma Mansoni Exposed to Lethal Doses of Praziquantel In Vivo* | Room  
Acoma A |
Presentation Abstracts
Includes Oral and Poster Presentations

Poster Presentations: SUB Atrium on Thursday, October 1, 2015 from 1:45 to 3:15 p.m.

Oral Presentations SUB Top Floor on Friday October 2, 2015 all day

These abstracts were published unedited to reflect the author’s original submission. The abstracts appear in alphabetical order based on the presenter’s last name.
**Oral and Poster Presentation Abstracts**  
(in alphabetical order based on presenter’s last name)

**Bereket Abera**, University of Northern Colorado,  
Mentor: Dr. Christine Marston, Associate Professor, Economics  
Oral Presentation, Session #12, Room: Fiesta A  
*Examining The Refugee Students’ Experience At Greeley Central High School From The Perspective Of Those Who Work With Them*

A standard grade level placement process for high school refugee students arriving to the United States does not exist. This research examines the grade placement process and other challenges a refugee student faces at Greeley Central High School and strives to understand the impact it has on this population from the perspective of professionals who work with them closely. The method involves qualitative, semi-structured one-on-one interviews conducted with each of the participants. These results could encourage other researchers to find solutions for these challenges that may be found in other U.S. cities with increasing refugee populations.

**Luis Aguilar Oviedo**, Boise State University,  
Mentor: Dr. Alicia Garza, Associate Professor, Department of World Languages  
Oral Presentation, Session #4, Room: Santa Ana A  
*Digital Access and Information Networks for Hispanics in Southern Idaho*

The access to information and communication technologies (ICTs) and digital devices expand the opportunities for economic upward mobility and social integration. In southern Idaho, the Hispanic population has limited access to ICTs. This limited access, known as digital divide, is problematic because it prevents Hispanics from work advancement, communication connection, and educational opportunities. Through surveys and personal interaction with the Hispanic community in that area, this research investigates the access to ICTs, the devices preference and its use, and the reasons behind any lack of access. The purpose of this research is to gauge the amount of access to digital devices and ITCs that Hispanics have in southern Idaho in an effort to narrow the digital divide.
Onesimus Al-Amin, University of New Mexico,  
Mentor: Dr. Nancy Lopez, Department of Sociology  
Both Oral & Poster Presentations, Session #3, Room: Spirit/Trailblazer  
The Preschool to Prison Pipeline: Sentencing Disparities as a Racial Project

Guided by the insights of racial formation theory, critical race theory and intersectionality, this research will analyze existing sociological research that examine historical factors which have contributed to the school-to-prison pipeline and the rise in the prison industrial complex population to determine the judicial sentencing processes that produce racial disparities between minorities and Whites (Wood and May). Racial/ethnic minorities are negatively affected by sentencing within the U.S. judicial system. I have conducted a critical review of what has been presented academically around the pre-school-to-prison pipeline with attention to how race and ethnicity is conceptualized in the studies.

Dreycey Albin, The University of Northern Colorado,  
Mentor: Dr. Jamie O’Rourke  
Poster Presentation  
Using Soybean VIGS as a Functional Genomic Tool in Common Bean

Common bean (Phaseolus vulgaris) is a major source of carbohydrates and protein for human consumption throughout Latin America and Africa. Despite its dietary importance, a lack of genomic tools makes it difficult to characterize gene function. We evaluated whether the bean pod mottle virus (BPMV) vector developed for virus induced gene silencing (VIGS) in soybean could be utilized in common bean research. Soybean BPMV VIGS constructs were tested to determine their ability to induce systemic gene silencing in common bean and soybean. Our analyses compared infection rates and phenotypic changes due to gene silencing in both species.

Franki Anaya, University of New Mexico,  
Mentor: Dr. Louis Scuderi, Department of Earth & Planetary Sciences  
Both Oral & Poster Presentations, Session #4, Room: Acoma A  
How Spatially Biased Is The Terrestrial Fossil Record?: A Quantitative Analysis Using Modern Mammalian Species As A Proxy

Continental sedimentary basins are examples of environments that allow long-term preservation due to rapid sedimentation and water influx that areas outside of the basins do not encounter, and cannot therefore produce long-term preservation. The Chaco Plain in the Andean foreland basin, the Pantanal Basin,
and upland areas surrounding these basins were delineated and the distribution of mammal species within and adjacent to these basins will be modeled using the R package, MaxEnt. Preliminary analysis of the dataset indicates that species assemblages within sedimentary basins are distinct from the assemblages outside of the sedimentary basins.

Gisela Angeles, Our Lady of the Lake University, Mentor: Dr. Jiletta Kubena, Assistant Professor of Criminal Justice, Department of Applied Social and Cultural Sciences
Oral Presentation, Session #10, Room: Fiesta A
The Effect Of The Quality And Types Of Relationships Between Students And Faculty Members In Middle School

Schools are a second home for students where most of their time is spent learning from peers and faculty members. This study explores how relationships students have with faculty members, throughout their middle school years, influence whether or not the juvenile engaged in minor level delinquency. The hypothesis of this study is that more positive relationships with faculty members resulted in less delinquency; while more negative relationships, resulted in higher levels of delinquency. The approach of this study is to survey individuals on their experiences to gain insight into how relationships with faculty in middle school influenced them. Findings from this research will encourage future studies in this area and fill in a research gap in student-faculty relationships and delinquency.

Stephany Anzueto, University of Wisconsin-La Crosse, Mentor: Enilda Delgado, Professor, Department of Sociology
Poster Presentation
Inequality in Early Education Assessment among Latino Students

This study set out to determine the factors that contribute to academic success of early education for Latino students. Academic success was identified by earned grades of mostly A’s and B’s in school. It was hypothesized that parent involvement, ethnicity, parent level of education, language spoken, school type and social economic status are factors that contribute to academic success of early education for Latino students. Conflict Theory of Educational Stratification was used which demonstrates that the inconsistencies found in social class, wealth, resources and power all contribute to the way our education system functions today. The data that was studied came from the National Center for Educational Statistics: Parent and Family Involvement. Univariate, bivariate, and multivariate analyses was conducted to test the hypotheses.
Adriana Aramburu, University of New Mexico, 
Mentor: Dr. Denece Kesler, Professor, Department of Epidemiology 
Both Oral & Poster Presentations, Session #3, Room: Acoma B 

Health Disparities within the Hispanic Community

This research describes the barriers the medically underserved Hispanic populations experience when seeking treatment in the outpatient setting. It then describes identified solutions to these barriers that are seen in the literature and in one local clinic that has successfully served this population. The goal of this project is to identify what strategies are successful in order to increase the health care access to properly serve the Hispanic community. To maintain the health of this community, clinics need to overcome these barriers and create an environment where patients can feel confident they will receive the best quality of treatment for their illnesses.

Andrea Archer, Abilene Christian University, 
Mentor: Lynette Austin, Assistant Professor and Director of Bilingual Emphasis Program, Department of Communication Sciences and Disorders 
Oral Presentation, Session #11, Room: Fiesta B 

For Those Who Can’t Speak: A Study of the Language Assessment of Bilingual Children/English Language Learners

The purpose of the current study is to explore group differences between monolingual and bilingual speech-language pathologists (SLPs) regarding the diagnosis of language impairment, secondary language impairment, and bilingual phenomena. Additionally, certain research questions will be addressed such as who is more likely to diagnose primary language impairment (PLI) in ELLs or bilingual phenomena as a diagnosis, and whether or not training has an impact on these decisions. A survey was distributed to various groups of speech-language pathologists asking for their insight on these questions, and the results were analyzed and discussed.
Brittney Arevalo, University of Wyoming,
Mentor: Dr. Mary Jo Cooley-Hidecker, Assistant Professor, Department of Communication Disorders
Oral Presentation, Session #2, Room: Acoma A
Applying the International Classification of Functioning, Disability and Health (ICF) to Parkinson’s disease

This research investigated the effects of Parkinson’s disease and available resources in rural areas using the International Classification of Functioning, Disability and Health (ICF) model. The mini-systematic literature review analyzed peer-reviewed journal articles focusing on the needs, services, and quality of life for patients in rural areas. Searches generated 18 total articles in speech databases, six of which fit inclusion criteria for the study. Results suggested the lack of needed services for individuals with Parkinson’s disease living in rural areas. Future research may explore expectations of treatments, services available, and psychological, emotional and social support when living in rural states.

Mika Armenta, University of New Mexico,
Mentor: Dr. Vince Clark, Department of Psychology
Both Oral & Poster Presentations, Session #11, Room: Santa Ana B
Modulating Emotion Perception with Non-Invasive Brain Stimulation and Meditation

Loving-kindness meditation (LKM) combined with anodal transcranial direct current stimulation (tDCS) on emotion perception modulated perception of emotional images. 30 minutes of anodal tDCS of the right temporoparietal junction (rTPJ) in conjunction with a guided LKM video influence participants’ emotion perception in the positive direction.

74 participants received 2.0 mA or 0.1mA current; anodal electrode was secured to the scalp with cathodal on the contralateral tricep. Before and after treatment, participants completed an emotion perception task where photographs were ranked on their subjective emotional valence. A significant relationship (p=0.031) between active rTPJ stimulation in combination with LKM on image valence demonstrated that emotion perception can be augmented with a combination of tDCS and meditation.
**Oral and Poster Presentation Abstracts**  
(in alphabetical order based on presenter’s last name)

**Annie Bailey**, Abilene Christian University,  
Mentor: Jennifer Shewmaker, Associate Professor of Psychology  
Oral Presentation, Session #6, Room: Santa Ana A  
*A Measure of Participants’ Reports of the Effectiveness of Study Abroad to Influence Cultural Perceptions*

This study involved an investigation into students studying abroad with Abilene Christian University in order to determine whether or not they felt more interculturally competent after living and studying in a foreign country for one semester. A survey was used to examine attitudes and perceptions about students’ home culture and cultures explored in their international travels, as well as how the host country’s culture influenced them. Results suggested that, overall, students studying abroad believed they were able to look at U.S. culture more critically and had gained a more informed perspective of the world.

**Nicole Baty**, University of New Mexico,  
Mentor: Dr. Eva Chi, Department of Chemical Engineering  
Both Oral & Poster Presentations, Session #10, Room: Acoma A  
*Effects of Curcumin on Amyloid-β (A β) Aggregates on Induced Membrane Disruption*

Membrane disruption by Aβ aggregates is perceived to be the mechanism of neurotoxicity. Curcumin, a small known anti-inflammatory and anti-oxidant properties has the ability to reduce Aβ-induced toxicity and Alzheimer’s disease pathology. Yet, the molecular mechanism of how curcumin affects Aβ aggregates remains an active area of research. This study, we investigated curcumin and how it attenuates Aβ aggregates deleterious effects on the cell membrane. Using a biomimic model: bilayer lipid disruption assay, we asse curcumin’s ability to mitigate Aβ aggregates’ interaction with the lipid bilayer. This preliminary data demonstrates curcumin’s ability to reduce leakage from the lipid bilayer.

**Merary Bautista**, Sam Houston State University,  
Mentor: Dr. John Pascarella, Professor & Dean of College of Science, Biology Department  
Oral Presentation, Session #4, Room: Fiesta B  
*Bee Species Survey*

A bee species survey was performed constructing a substantial guide of bee species living in Walker County, Texas. This was accomplished using pan traps,
Blue Vane traps, and sweep netting. Each of these techniques were used around six different landscapes. The landscapes tested were: a pine tree field, the lawn near a house, the grassy region between a road and pine trees, a drained fish pond, natural grassland, and a hardwood forest with palm trees. When the specimens were collected, they were prepared for pinning and species identification followed.

Kathie Beasley, University of Wyoming, Mentor: Chian Jones-Ritten, Assistant Professor, Agricultural & Applied Econ Oral Presentation, Session #1, Room: Fiesta A
Informing the Market: Consumers’ Willingness to Pay for Shrimp Produced In Wyoming and Oregon as a Possible Off Set to Mangrove Deforestation

This study investigates consumer willingness to pay for shrimp raised in Wyoming and Oregon. An intercept survey was administered in Laramie, Wyoming (n=30) and Astoria, Oregon (n=30), to gain an initial understanding of consumers’ willingness to pay for shrimp cultivated in these areas. Results indicate that Wyoming consumers are more willing to pay for locally raised shrimp than consumers in Astoria, Oregon. The study may be used as a base line to inform future local shrimp production markets. This, in turn, could potentially reduce U.S. dependence on imported shrimp from Southeast Asia, which is causing high rates of mangrove deforestation.

Chanda Begin, University of New Mexico, Mentor: Dr. Andrew Sussman, Department of Family & Community Medicine Both Oral & Poster Presentations, Session #4, Room: Acoma B
Training Narratives among Disaster and Emergency Medical Responders

The acceptance of culture as a determinate of health is on the rise. Cultural competency in the field of medicine is receiving increased attention; researchers are actively questioning its usefulness and limitations. This paper precedes a limited qualitative study where definitions of culture (and other population axioms) and their use during the training of disaster and emergency medical responders will be explored using participant observation, semi-structured interview, literature review, and collection of historical data pertinent to emergency response in the United States. Use and interpretation of population axioms in training narratives could change the lived experience of responders and their patience. The collection of qualitative data, placed within relevant contexts, could yield valuable information about interactions of responders and the populations they serve.
Oral and Poster Presentation Abstracts
(in alphabetical order based on presenter’s last name)

Darren Brown, University of New Mexico,
Mentor: Dr. James Cavanagh, Assistant Professor, Department of Psychology
Both Oral & Poster Presentations, Session #9, Room: Spirit/Trailblazer
Does Memorization Of Religious Material By Religious Persons Increase Working Memory Ability When Compared To A Non-Religious Group?

Does regular memorization of religious texts, passages and prayers aid working memory when in an academic setting? If so, what religious practices and what texts aid these memory systems? This research will conduct a series of working memory experiments, by Operational Span (OSPA), on groups of university students to determine the impact and draw of students to a religious vehicle; to explore how memorizing religious texts and prayer affect memory and cognition. Specifically this research looks at religious practitioners or religious people and their performance in an academic setting with regard to Grade Point Average (GPA) compared to non-religious participants. This research contributes to studies in neuro-psychology and religion, more specifically cognition with further implications in memory systems study and the practice of religion.

Hannah Chappell, Abilene Christian University,
Mentor: Joe Cardot, Professor and Chair of the Department of Communication and Sociology
Oral Presentation, Session #7, Room: Santa Ana A
Cellphone Use as Nonverbal Communication: A Cross-Cultural Application of a Communication Model

This study investigated motivations and interpretations of cell phone gazing, specifically searching for gender differences in the frequency of the behavior. 94 college students were surveyed using an instrument based on Nakamura’s (2015) communication model regarding cell phone gazing. Participants showed no statistically significant gender differences in the frequency of phone gazing. Findings indicated that people are more motivated to intentionally look at their mobile phones when alone in a public place than when in the company of familiar persons. This study also revealed that negative interpretations are the most common when others are seen engaging in phone gazing.

Valentina Chee, University of New Mexico,
Mentor: Dr. Deborah Cohen, Department of Individual, Family & Community Education
Both Oral & Poster Presentations, Session #6, Room: Acoma B
Sugar Sweetened Beverages Among Native American Youth
Oral and Poster Presentation Abstracts
(in alphabetical order based on presenter’s last name)

According to the New Mexico (NM) Department of Health, more than half of Native American third graders are overweight or obese. The SEARCH for Diabetes in Youth Study (2009) found that 80% of Native American children ages 15 to 19 in Arizona and in New Mexico had type 2 diabetes. Consumption of sugar sweetened beverages (SSB) is associated with overweight and obesity in children and adolescents. The proposed study will explore if Native American children, ages 5-10 years and who reside in an urban location in Albuquerque NM are consuming more, less, or equal amounts of SSB than white children.

Brittany Clark, Louisiana State University,
Mentor: Dr. Angeletta Gourdine, Assistant Professor, Department of English
Oral Presentation, Session #4, Room: Spirit/Trailblazer
More Than Welfare Queens and Strong Black Women: Black Mothers in the Films “Precious” and “Claudine”

This study examines how the “welfare queen” is represented in contemporary film by looking at mothering styles and relationship status. There is a tendency in cinema to portray African American women as either asexual or hyper sexualized beings. These images give shape to the popular culture concept of the welfare queen. As a result, these mothers are painted as abusers of public assistance and face stereotypical attitudes from the general public and government entities. I explore how films challenge rather than reinforce the welfare queen stereotype.

Geury Cruz, John Jay College of Criminal Justice,
Mentor: Dr. Mark Fondecar, Associate Professor, Department of Psychology
Oral Presentation, Session #12, Room: Santa Ana A
The Effect of Interparental Conflict on Psychosocial Functioning in the Lives of Hispanic Young Adults

This study will examine the effect of interparental conflict on the psychosocial functioning of adolescent from Hispanics background. Prior research has focused on Caucasians and Black Americans with little attention given to Hispanic Americans. More research is needed on young Hispanic Americans because they may respond differently to parental conflict since they have distinctive cultural values. The current study will have a large group of Hispanic Americans and is expected to find parental conflict to be related to higher level of internalizing and externalizing behavioral problem, less fathers involvement, and poor academic achievement. As a result, the current research will add to the field by examining the role of cultural values and parental conflict in psychosocial functioning.
Briana Cuestas, University of New Mexico, 
Mentor: Dr. Mary Virginia Wilmerding, Research Professor, Department of Theatre and Dance 
Both Oral & Poster Presentations, Session #7, Room: Acoma A 
Validation of the Dance Aerobic Fitness Test (DAFT)

The field of kinesiology has made significant advancements in creating standardized, sports-specific and health-related exercise testing; however, the more specific field of dance kinesiology has experienced limited growth in creating tests exclusively for dancers. The Dance Aerobic Fitness Test (DAFT), developed in 2007, attempts to assess the fitness of modern dancers prior to rehearsal season. This research evaluates the validity of the DAFT against previously validated tests: the 112-step test and an incremental treadmill test. If the DAFT proves to be valid, it may serve as a dance-specific test, and may be used to evaluate and prescribe effective dance programs.

Nathalie Daniel, University of New Mexico, 
Mentor: Dr. Patricia Boverie, Professor, Department of O.I.L.S. 
Both Oral & Poster Presentations, Session #4, Room: Santa Ana B 
Reviewing the Work Values of Millennials

In May 2015, the Pew Research Center revealed that Millennials represent the largest age segment of the labor force. As the American workforce transitions into new generational paradigms, it is increasingly important to understand generational distinctions. This research compared established observations about Millennials in relation to other generational cohorts with qualitative survey data from Millennials working for a company in Seattle, Washington. In doing so, this research tested the reliability of the established observations. Results indicated that Millennials have high intrinsic values, average extrinsic and social values, and high work centrality values. This research contributes to the fields of psychology- more specifically industrial organizational psychology- and sociology, with further implications in business management.
Christal Davis, University of Mississippi,
Mentor: Dr. Stefan Schulenberg, Associate Professor, Department of Psychology
Oral Presentation, Session #10, Room: Santa Ana A
Perceptions and Attitudes Regarding Preparedness for Campus Crises: A Focus Group Study of Undergraduates at a Southern University

Ten focus groups were conducted with 54 students. Participants completed general demographic information before discussing various topics related to disaster preparedness. Findings revealed complacency and lack of preparedness among students. Participants reported feeling most prepared for pandemic outbreaks, while they showed the least amount of confidence in their preparedness for incidents of violence on campus. Participants reported being relatively unprepared and unconcerned about natural disasters. Despite a lack of preparedness, participants generated suggestions for increasing preparedness of students. Findings, recommendations, and directions for research are discussed.

Courtney Deisch, University of New Mexico,
Mentor: Dr. Felipe Gonzales, Professor, Department of Sociology
Both Oral & Poster Presentations, Session #7, Room: Fiesta A
Nationalist Secession Movements In Federated States: An Analysis Of The Phenomena Of Separatist Movements Using The Cases Of Scotland, Quebec, And Catalonia.

This research explores the social and political justifications for nation groups within highly federated societies to choose to seek secession. This historical-comparative case study of the three separatist examples of Quebec from Canada, Scotland from the United Kingdom, and Catalonia from Spain is informed by political science consociational and federal theory as well as sociological theories of social movements. It will contribute to the understanding of this specific type of secession movement and the problems modern states have in keeping themselves integrated, as well as inform future policy decisions within states with similar federal profiles.
Matthew DeSelm, University of Northern Colorado,  
Mentor: Dr. James M. Haughian, Department of Biological Sciences  
Poster Presentation  
*Overexpression of the BCL11A Transcription Factor in Basal-like Versus Luminal Breast Cancer Cells*

Breast cancers can be classified into subtypes, such as luminal and basal. Luminal breast cancers express estrogen and/or progesterone receptors, and respond to hormone therapy. Basal-like cancers lack these receptors, and do not respond to hormonal treatments. 40% of luminal cancers contain a subpopulation of ER-/PR-/CK5+ cells called luminobasal. Luminal (E-3) and Luminobasal (EWD-8) model cell lines were derived from a single cell line. We validated the differential expression of several markers within these cells. We also found the BCL11A transcription factor is overexpressed in EWD-8 cells, and may play a role in this transition from luminal to basal-like cancer.

Jessica Estrada, Sam Houston State University,  
Mentor: Dr. Janis White, Professor, Department of Family and Consumer Science  
Oral Presentation, Session #8, Room: Acoma A  
*Medical Apparel for Disability Accommodations: Innovative Designs*

Use of textiles and apparel goes far beyond the latest trends. A major influence in our society, we will discuss an important aspect related to clothing as protection. This session emphasizes accommodations for apparel for children with certain disabilities or health issues that can help make these issues more bearable.

Kevin Fettel, University of Wyoming,  
Mentor: Dr. Baskaran Thyagarajan, Assistant Professor of Pharmaceutics, School of Pharmacy  
Oral Presentation, Session #11, Room: Acoma A  
*Transient Receptor Potential Vanilloid Type 1 Expression Inhibits Presentations of Metabolic Syndrome*

This study investigates the role of TRPV1 ion channels in the regulation of body weight gain and metabolic syndrome. We evaluated the effects of dietary capsaicin (CAP) on HFD fed WT and TRPV1/-/ mice models. Further, mRNA expression levels of Peroxisome Proliferator Activated Receptor α and γ, transcription
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factors relating to adipogenesis and metabolism, in subcutaneous, epididymal, and brown adipose pads isolated from HFD ± CAP fed WT and TRPV1-/‐ mice by quantitative PCR were measured. Our results provide evidence for the role of TRPV1 activation to inhibit weight gain and interrelated metabolic syndrome; emerging as a novel therapeutic target.

Kaylynn Gaines, University of Mississippi, Mentor: Dr. Javier Boyas, Assistant Professor, Department of Social Work
Oral Presentation, Session #11, Room: Acoma B
The Self-Rated Health of Low-Socioeconomic non-Hispanic Whites in Mississippi

The SES-Health gradient has extensively investigated the associations between health disparities and low socioeconomic position. However, much of this work has focused on racial and ethnic minorities and middle class non-Hispanic White populations. Using Gordon’s (1982) functional health framework, the purpose of this study was to investigate the self-rated health status of low-income non-Hispanics whites in Mississippi. This cross sectional exploratory study employs data from the 2013 Behavioral Risk Factor Surveillance Survey. Logistic regression results suggest that respondents who reported more days of not so good physical health, more days of not being able to carry out their daily activities because of poor physical and mental health, education level, having serious difficulty concentrating, remembering, or making decisions because of physical, mental, or emotional condition, and level of exercise significantly predicted self-rated global health.

Ariana Garcia, Washington State University, Mentor: Dr. Kathleen Rodgers, Department of Human Development
Oral Presentation, Session #9, Room: Santa Ana A
Relation of Music Videos to Sexual Consent Negotiation

Sex and violence have become increasingly visible in the media, especially within music videos. With the constant advancement of media, sex, violence and objectification of women are becoming more apparent and normalized. Social cognitive theory suggests that exposing adolescents to sexual content in the media can impact the viewer’s attitude and behavior (Bussey & Bandura, 1999). This study is intended to determine the relationship between music videos, and college student’s confidence and intentions to negotiate sexual consent and how sexual stereotypes impact the viewer’s perceptions. I also identify how experiences of violence impact the willingness to negotiate sexual consent.
Ana García-Ceballos, University of Wyoming,
Mentor: Dr. Subhashis Mallick, Professor, Geology and Geophysics Department
Oral Presentation, Session #5, Room: Acoma A
Calculating Minimum And Maximum Horizontal Stress From Anisotropic Properties In The Rock Springs Uplift, Wyoming, USA

This study utilizes pre-stack waveform inversion (PWI) for estimating the principal anisotropic directions, as an indicator of the maximum and minimum stress directions. Migrated super-gathers at six different azimuths from 15° to 165° were created for anisotropic inversion using the PWI. Preliminary results indicate that anisotropy is observed below 1.5 s for all the azimuth stacks in two-way travel time graphs, which correlates favorably with previous studies. Predicting the subsurface stress direction is important for Carbon sequestration for preventing fractures on the sealing formations. It is also important for hydraulic fracturing of the unconventional reservoirs.

Tysheann Grant, University of Mississippi,
Mentor: Dr. Matthew Reysen, Associate Professor, Department of Psychology
Oral Presentation, Session #6, Room: Santa Ana B
Can Survival Processing Override the Effects of Collaborative Inhibition on Recall

Functionalists assert that one of the main purposes of the human memory system is to aid survival. In addition, several studies have demonstrated that collaborative inhibition can be reduced or eliminated when participants have a high level of expertise with the information they are subsequently asked to remember. Therefore, if human memory systems are ‘primed’ to aid survival, then the adverse effects of collaborative inhibition may be reduced or eliminated when a survival processing task is employed. In the present experiment, participants studied words using a pleasantness processing task, or a survival processing task. Following this, they recalled the words either alone or in pairs. The results revealed that collaborative inhibition was eliminated when the survival processing task was implemented, but not when the pleasant processing task was used.

Cassie Green, Boise State University,
Mentor: Dr. Leslie Madsen-Brooks, Department of History
Oral Presentation, Session #5, Room: Spirit/Trailblazer
Agitated to Clean: How the Washing Machine Changed Life for the American Woman
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For most historians there exists minimal understanding of women’s domestic life in the past. This project explores the tools used for washing clothing and provides insight into the lives of the individuals who used them. Using a method based on the works of Jules David Prown, an interpretive analysis is being completed for multiple artifacts from the Idaho State Historical Society’s collection. In addition to focusing on the specific artifacts, advertisements for these items are being analyzed. The overall purpose of this research is to ignite an interest in the history of domestic women, and promote the preservation of these types of artifacts.

Curtis Green Eneix, Boise State University,
Mentor: Dr. Gail Shuck, Associate Professor, Department of English
Oral Presentation, Session #3, Room: Fiesta A
First-Generation College Students, Identity Labels, Empowerment

First-generation college students (FGCS) have been the primary focus of college retention research due to more FGCS entering universities, and low retention rates. Recent FGCS research has focused on various quantitative studies. These findings result in general understandings. This study explores (1) how FGCS perceive their identity in a college community, (2) how they have or have not experienced identity conflicts while pursuing a degree, and (3) how FGCS talk about their experiences through a qualitative analysis of face-to-face interviews. Preliminary findings suggest the FGCS label empowers SSP students to continue with their education during times of hardship and/or loneliness.

Kayla-Ann Hawley, University of Wyoming,
Mentor: Dr. Susan Dewey
Oral Presentation, Session #8, Room: Santa Ana A
Dynamics at Work in the Lives of Street-Involved Women

I analyzed archival data to understand dynamics influencing the lives of street-based sex workers in Denver, Colorado. Dr. Susan Dewey, University of Wyoming, gathered anonymous quantitative data from over 120 women who sought services at a transitional housing facility for women leaving street-based sex work. I analyzed the data to determine the complex dynamics among age, race, family status, addiction, sexual abuse, number of children, sex-work pathways, and trauma history. I also coded qualitative data from semi-structured, in-depth interviews with 36 street-involved women to identify themes relevant to their lives and patterns related to their leaving street-based sex work.
Eco-feminist theology is a relatively new perspective in theological studies. This study explores how eco-feminist principles can be expressed—perhaps even encountered—in Americans’ day-to-day lives. Specifically, this paper analyzes the video game Mass Effect and how the game manifests some of the main principles of Ivone Gebara’s eco-feminist theology. The research findings shed light on how video games can potentially manifest different theological perspectives and how—according to Gebara’s epistemology and religious studies in video games—people may build and transform their experiences through interactive digital games.

Laura Hill, Abilene Christian University,
Mentor: Cherisse Flanagan, Assistant Professor and Associate Director of ACU Psychology Clinic
Oral Presentation, Session #9, Room: Santa Ana B
Love is a Battlefield: Experience of Love in Relation to Depression

To discover if there is a relationship between experience of love and depression, a survey including the Experience of Love Questionnaire (ELQ), an author-developed scale, and the Center for Epidemiological Studies Depression scale was created to assess these variables. Results of 103 participant surveys revealed a correlation between the variables – with significance in friend and family ELQs but, surprisingly, not in the romantic relationship ELQ. Further analysis of romantic relationships revealed a significant correlation, but only among married participants. These results could lead to a belief that depressive symptoms could decrease if relationships and perceptions of love improve.

Fadi Jamaleddin, University of New Mexico,
Mentor: Dr. Elizabeth Yakes Jimenez, Department of Individual, Family & Community Education
Both Oral & Poster Presentations, Session #8, Room: Acoma B
A Community-Based Participatory Diabetes Education Research Project With Casa De Salud In The South Valley

Diabetes-related disparities are evident in New Mexico and the South Valley. This study evaluated diabetes patient literacy and medication adherence
and the effects of 3 months of telephone support by clinic paraprofessionals. Data were self-reported at baseline and 3 months and compared using the Chi-square test. At baseline (n=37), 37% of patients had low literacy, 50% had possibility of low literacy, and 13% had adequate literacy. Fifty-eight percent of patients (n=33) reported high medication adherence, 24% medium adherence and 18% low adherence. From baseline to 3 months, self-rated health and understanding of benefits of blood sugar control significantly changed.

Christina Jeffrey, Mercy College,
Mentor: Kalpana Samudre, Adjunct Professor, Department of Natural Sciences
Poster Presentation,
The Effects of Folic Acid on DNA Methylation, Stabilization and Cancer Susceptibility

The B vitamin Folic Acid is not synthesized within the body naturally. When this vitamin is not obtained by the body at the required level, the deficiency can result in chromosomal damage, mutation of the proto-oncogene and p53 gene, DNA stabilization and hypomethylation. Previous research done with laboratory rats and voluntary human participants, along with controlled splenectomy to view folate levels within the body showed a decrease in the synthesizing of the S-adenosylmethionine pathway, resulting in an increase in S-adenosylhomocysteine (homocysteine). Hepatic values show a decrease in SAM values from 29.60 ± 3.47 to 4.400 ± 0.01. This resulted in an increase of the SAH values from 20.47 ± 2.08 to 35.47 ± 11.28. These levels were seen to decrease with a controlled diet and supplementation of folic acid.

Shaobeny Johnson, Abilene Christian University,
Mentor: Stephanie Hamm, Assistant Professor, School of Social Work
Oral Presentation, Session #1, Room: Spirit/Trailblazer
Liberated Divinity: The Experience of African American Females in Pastoral Leadership

The following case study investigated the experience of African American females in pastoral leadership. Contextual research focused on the calling to vocation, discrimination, and historical background of female biblical figures. The study was conducted within the focus of womanist theology, the unique blend of black and feminist theology. Semi-constructed interviews were conducted with black female pastors in order to investigate this population. A content analysis revealed the following themes: the mandate of scripture, avoidance, discrimination, importance of mentorship, and the significance of the women of old.
Robert Jones, University of New Mexico,  
Mentor: Dr. Kency Cornejo, Assistant Professor, Department of Art & Art History  
Both Oral & Poster Presentations, Session #11, Room: Spirit/Trailblazer  
Jewelry: The Retention of Cultural Identity, Native American Art History

Universities have few if any art history courses that teach the background of Southwestern Native American jewelry. Historically Metalsmithing serves an important component in the retention of cultural identity for many Native American families. The artist collector relationship facilitates a robust market for this long-established art form. This research explores complicated sequential accounts of award winning design and technique accomplished by renowned Native American artists. Moreover, it examines the institutional forces that have omitted this artwork from the academic art history narrative; consequently, bringing additional attention to this artwork as a fine art and not merely a craft.

Derek Kuit, University of New Mexico,  
Mentor: Dr. Eric Ruthruff, Associate Professor, Department of Psychology  
Both Oral & Poster Presentations, Session #12, Room: Santa Ana B  
Did you see that? An Attempt to Induce Suppression of Attention Capture in a Cue Paradigm.

There is very little research investigating whether attention suppression can occur using abrupt onsets in the cue paradigm. In Remington’s et. al. (1992) work abrupt onsets had high attention capture. It did not matter how hard participants tried they could not prevent their attention from being captured by the onset. This project uses a series of three experiments using bombardment of distractors as an attempt to induce suppression of attentional capture. The first two experiments revealed that our attempts to induce suppression were unsuccessful. Bombardment may not be enough to induce the suppression of abrupt onsets attentional capture.

Jaimie Lawhorn, Sul Ross State University,  
Mentor: Dr. Christopher Ritzi  
Both Oral & Poster Presentations, Session #5, Room: Fiesta B  
Insect Diversities In Areas Impacted By Biological Control Of Saltcedar (Tamarix Spp.) In West Texas

Saltcedar (Tamarix spp.) is an invasive species of tree in North America, native to Asia and the Mediterranean. First introduced in the early 19th century for
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erosion control, saltcedar has spread to dominate over 2 million acres in the United States and Mexico. Biocontrol began in 2001 with the introduction of the saltcedar leaf beetle in Utah, Colorado, Nevada, and Wyoming; this has led to the control of over 200,000 acres of affected land. Following this success, the saltcedar leaf beetle was released along the Rio Grande in Texas in 2008 where it has been having positive effects. This study served to compare the insect biodiversity of areas with controlled saltcedar populations versus areas still under mitigation for saltcedar.

Lauren Leistman, Louisiana State University,  
Mentor: Dr. Alex Cohen, Professor, Department of Psychology  
Poster Presentation  
Detection of Expressed Emotion with Computerized Vocal Analysis

Expressed Emotion (EE), defined as overly critical comments and emotional over-involvement by family members, has been correlated with an increased risk of Schizophrenia relapse. Since most of the measurements of EE, including the Camberwell Family Interview (CFI), rely on a clinician to interpret and score the level of EE, the results can be subjective and have limited validity or reliability. The purpose of this study is to determine if EE can be detected by acoustic analysis of vocal expression, which would increase the objectivity, validity, and reliability of such measures.

Bridget Llanes, University of New Mexico,  
Mentor: Dr. Warner Orozco, Department of Sustainability Studies  
Both Oral & Poster Presentations, Session #1, Room: Santa Ana A  
Using Phyto-Remediation and Community-Based Participatory Research in the Remediation of the Kirkland Air Force Base Jet Fuel Spill

This mixed methods research combines Community Based Participatory Research and phyto-remediation in the International District community to learn about the Kirtland Air Force Base jet fuel spill and it’s health impacts. How do they share the information and design an action plan for clean up? Can plants such as Helianthus annuus remediate vapors coming off the spill? By creating a Neighborhood Ambassador Program, participants will plant rain gardens on the spill site, evaluating and sharing the data after the plants complete their life cycle. Utilizing CBPR methods, communities are empowered and engaged in a reciprocal process of community building through knowledge sharing and phyto-remediation of the jet fuel spill.
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**Kimberly Luna**, Boise State University, Mentor: Dr. Brian Wampler, Department of Political Science
Oral Presentation, Session #8, Room: Fiesta B
*The Impact of Changes in Immigration Policy on Idaho’s Agricultural Workers*

Idaho’s agricultural industries depend on Mexican and Mexican-American farmworkers for labor to maintain farms, crops, and livestock. Despite their important role in the economy, many of these farmworkers find it difficult to improve their social position. This study explores how immigration laws impact the social status of established Mexican and Mexican-American farmworkers in Idaho, spanning the time period between the Immigration Reform and Control Act to President Obama’s recent executive order on immigration. Ultimately, this research intends to discover if and how immigration policies elevate farmworkers, as a way to inform lawmakers considering future legislation.

**Kevin Lwango**, CUNY-John Jay College of Criminal Justice, Mentor: Dr. Isaac Malki, Assistant Professor, Department of Africana Studies
Oral Presentation, Session #8, Room: Fiesta A
*Nation and State-building in Post-Colonial Africa: Case Studies and Analysis*

This research draws upon a large body of literature on nation- and state-building in post-colonial Africa. It tackles two major problems that African nations faced in their development that persist today, including (a) the consolidation of state institutions in the aftermath of European control, and (b) defining the citizenship status of individuals resident within the boundaries of the new states. Focusing on examples including Ghana, Angola and the Democratic Republic of the Congo, this study analyzes how these two dynamics contributed to socio-political crises and conflicts over identity that have obstructed the construction of nationhood and hindered state formation. This research will show that colonial legacies, weak state institutions, and ethno-nationalist mobilizations have contributed to state failure in various areas of the continent.
Diana Macias, University of Wisconsin-Madison,  
Mentor: Dr. Kate McCulloh, Assistant Professor, Department of Botany  
Oral Presentation, Session #6, Room: Fiesta B  
Coordination Of Stem And Leaf Hydraulics In Four Co-Occurring Species

The plant water pathway is a continuous and interconnected column. When undergoing water stress the xylem experiences lower negative pressures, which can result in air bubble propagation among vessels. If not repaired, plants may experience reduced productivity. The objective of this study was to evaluate small diameter branches and leaf vulnerability to embolism and to measure embolism experienced in the field by stems and leaves of four co-occurring species (Betula papyrifera, Betula alleghaniensis, Ostrya virginiana, and Carpinus caroliniana) in Madison, Wisconsin. We found that midday xylem water potentials were higher in O. virginiana than in C. caroliniana and B. papyrifera.

Antonio Macias, University of New Mexico,  
Mentor: Dr. Peter Pribis, Department of Nutrition & Dietetics  
Both Oral & Poster Presentations, Session #2, Room: Fiesta A  
The Lifestyle and Academic Achievement Study (LAAS)

The purpose of this study is to analyze the effect of several health behaviors on grade point average (GPA) and overall academic performance (AP) of college students attending the University Of New Mexico (UNM). The set of variables include nutrition, eating breakfast, level of hydration, caffeine intake, exercise, physical fitness, sedentary behavior, screen time, self-control, sleep habits, mood state, trust, social support, time management, sun exposure, addictive behavior (alcohol, drugs, tobacco), number of hours worked per week and spiritual health. The purpose of this research project is to develop a comprehensive lifestyle survey that is applicable to young college students, which broadly evaluates their lifestyle. Our goal is to develop and validate the questionnaire, develop a scale which will allow us to identify students with very poor lifestyles, determine which of the variables are critical, and eventually develop an intervention program which could help students improve their health behaviors.
Jordan McCannon, St. Edward’s University,
Mentor: Dr. Stacey Borasky, Associate Professor, Social Work
Oral Presentation, Session #7, Room: Santa Ana B
Gender Influences and Sibling Dynamics Within Familial Care

Typically within gerontological research, studies exploring the nature of shifting power dynamics only focus on the dichotomous relationship of aging parents and their adult children. However, the relationships between siblings, which so often become nebulous and detrimentally affect the quality of care provided to parents, requires more thorough study. Preliminary investigation led to the tentative identification of four themes, but a qualitative examination of recent literature attempts to understand how gender normative behavior influences the frequency of caregiving tasks. Additionally, the research aimed to uncover how gender normative behavior exists and/or causes conflict over caregiving within sibling groups sharing responsibilities.

Dylan McCurdy, University of Wyoming,
Mentor: Dr. Matthew Painter, Assistant Professor, Department of Sociology
Oral Presentation, Session #10, Room: Spirit/Trailblazer
The Environmental Sociology of American Buddhism

This study investigates the environmental perception of a Buddhist in Laramie, Wyoming. Using intensive interviews, axial coding, and grounded theory, I observed the relationship between three Buddhist themes (awareness, compassion, and oneness) and the perception of the environment. Despite consistent interaction with the environment (through recycling and gardening), and the themes arising from the Buddhism, the interaction with the environment had little impact from Buddhism; instead Buddhism justified the actions that led to environmental consciousness. This study could be used to understand themes that encourage environmentalism, and thereby further understanding in the implementation of sustainable development systems.

Jesus Medrano, University of Northern Colorado,
Mentor: Dr. Brent Peterson, Department of Sports and Exercise Science
Poster Presentation
The Effects Of An Aerobic And Cognitive Training Intervention On Cognitive Function In Cancer Survivors: A Pilot Study

There are more than 100 clinically distinct types of cancer, each having its own symptoms and requiring a different method of treatment. Despite current
advances, the positive effects from treatment are often outweighed by negative effects. To alleviate these effects, cancer survivors who have undergone or are currently undergoing adjuvant treatment for cancer participated in 12 weeks of aerobic and cognitive training. Results suggest that both cancer survivors and non-cancer controls respond favorably toward aerobic and/or cognitive training and that cognitive training alone may be specifically beneficial for cancer survivors suffering from aftereffects of chemotherapy.

Maria Mendez, University of New Mexico, Mentor: Dr. Shirley Heying, Department of Anthropology
Both Oral & Poster Presentations, Session #7, Room: Spirit/Trailblazer
Adolescent Perspectives on Colonia Life in the El Paso/Ciudad Juarez Borderlands

Individuals living in colonias within the U.S./Mexico borderlands face multiple challenges such as immigration issues, underemployment, and poverty. This research project seeks to better understand the experiences of colonia residents and the challenges they face by centering on the perspectives of colonia Mexican and Mexican-American youth living near El Paso, Texas. By focusing on youth—an often overlooked population—the project seeks to gain insights into colonia life and to offer youth an opportunity to voice community issues. Qualitative and quantitative data from the project will also be used to determine youth interest in a future community-based participatory research project.

Matthew Moyd, University of New Mexico, Mentor: Dr. Deborah Cohen, Associate Professor, Department of Nutrition and Dietetics
Both Oral & Poster Presentations, Session #5, Room: Acoma B
Folic Acid Intake in Women of Childbearing Age Who Follow a Gluten-Free Diet

In 1998, the fortification of folic acid in all grains was mandated to increase consumption. Only 24 percent of women consume the recommended amount, increasing the chances of neural tube defect affected pregnancies. Gluten-free diets are a trend for many women and has reached a 6 billion dollar revenue. Studies show that these diets lack adequate amounts of micronutrients. Investigations were conducted to evaluate if gluten-free diets meet the recommended amount of folic acid for women. This study assesses the folic acid content consumed by women of childbearing ages, who follow a gluten-free diet at the University of New Mexico.
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**Divana Olivas**, University of New Mexico,
Mentor: Dr. Irene Vasquez, Associate Professor, Department of Chicana(o) Studies
Both Oral & Poster Presentations, Session #3, Room: Santa Ana A
*Food and Cultural Identity: An institutional Analysis of Community and Home Food Environments, in El Cerro, New Mexico.*

This research will diagram the institutional forces that shape food ways within El Cerro to further extract the spaces where identity is negotiated. In doing so, this project will explicate the community food environment by focusing on retail food stores, through an analysis using the validated Nutrition Environment Measures Survey (NEMS-S). Additionally, a narrative of the home food environment, by way of semi-structured interviews, will be gathered to assess the participants’ relationship with their food environment. Limitations to this research include the sampling method, which does not allow for any generalized statements to be made.

**Yvette Karina Ortega**, University of New Mexico,
Mentor: Dr. Jamal Martin, Department of African American Studies
Both Oral & Poster Presentations, Session #12, Room: Acoma B
*Vital Elements Behind Female Gender Disparities In Medical Physicians*

This research seeks to understand the gender disparity within physicians, and how the disparity is associated with the lack of female physician role models, women roles, political economics of family-friendly policies, and current statistics of enrollees within medical schools. This research contributes to the fields of Gender Studies, specifically Gender Inequality with further implications in Public Health. Background: In 1849, Elizabeth Blackwell became the first woman to receive a medical degree in the United States. Although the increase in women physicians within the 21st Century is visible, gender inequality within this field is still prominent. Determining why this gender gap still exists is crucial, as equal opportunity within physicians in relation to sex has yet to be achieved.
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**Jacqueline Peña**, Boise State University ,
Mentor: Dr. Jennifer Forbey, Associate Professor, Department of Biological Sciences
Oral Presentation, Session #7, Room: Fiesta B
*Is Diet Selection by Greater Sage-Grouse Influenced by Biomass Availability or Toxins?*

Herbivores meet nutritional requirements by consuming plants with high protein and low toxin concentration. Greater Sage-grouse (*Centrocercus urophasianus*) select sagebrush with low monoterpene (toxin) concentration and diet selection may be driven by spatial scales. Our research aims to determine how diet selection is influenced by food availability and whether sage-grouse select specific sagebrush morphotypes to maximize biomass consumed per bite or minimize toxin consumed per bite. We identified sage-grouse foraging site and determined sagebrush morphotype density and volume. We then measured biomass and monoterpene concentration of the leaves. Our results showed that sage-grouse selected sagebrush morphotypes to minimize toxin intake.

**Apollonia Pina**, University of Oklahoma,
Mentor: Dr. Joy Pendley, Center for Applied Social Research
Oral Presentation, Session #5, Room: Fiesta A
*Headlands Native Student Enrichment Program: research and renewal*

The Headlands Indian Health Careers was designed to increase the STEM background of Native American students interested in health careers. The program sought to increase students’ chances of undergraduate success and prepare them for admission to health professional schools. This project seeks to analyze the 30-years of data the program collected in their math and science testing, along with interviews of program alumni and administrators. Using a mixed methods approach, we will deconstruct the components of the program to understand the cultural and contextual factors that shape the unique pathways of Native students to the university, and use this data to inform of the effectiveness of this type of program in increasing Native student efficacy and persistence.
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Abdiel Ramirez, University of New Mexico,
Mentor: Dr. Gregory Heileman, Associate Provost/Professor, Department of Electrical & Computer Engineering
Both Oral & Poster Presentations, Session #11, Room: Fiesta A
*Using Modern Dashboard Technology to Provide Insight into Academic Performances while Detecting Anomalies within these Performances*

How does data visualization influence decision making at a University? Can modern dashboard technology provide insight into academic performances while using machine learning to detect anomalies within these performances? This research will track student athlete performance towards degree completion, using this information as a case study to assess if any anomalies occur during their progress. This research contributes to the field of computer science and statistics, more specifically to the area of data science with further implications in aesthetics, sociology, and computer engineering.

Ramiro Ramirez, Our Lady of the Lake University,
Mentor: Dr. Shelly McGee, Assistant Professor, Department of Mathematics
Oral Presentation, Session #1, Room: Fiesta B
*Computer Simulation of the Anoplophora Glabripennis*

The Asian longhorned beetle (Anoplophora glabripennis) has directed the removal of thousands of urban trees, therefore research has been placed in developing methods to the control and eradication of the Asian longhorned beetle. A Matlab simulation of the Asian longhorned beetle infestation of a forest was created to investigate optimal control strategies and eradicate the wood-boring beetle. The model was created with dispersal and spatial temporal data collected from previous studies.

Kristi Rendon, University of New Mexico,
Mentor: Dr. Denece Kesler, Professor, Department of Internal Medicine
Both Oral & Poster Presentations, Session #7, Room: Acoma B
*What Are The Health Impacts From Us Nuclear Mining Of Radioactive Uranium Materials In New Mexico?*

In 1945 the Manhattan Project of Los Alamos, NM brought an increased demand for uranium. New Mexico was the United States leader in uranium production between 1953 and 1993/ The uranium mining industry brings forth many health impacts such as pneumoconiosis, which is the scaring of the
lung tissues from the accumulation of dust causing disease. This research will evaluate the epidemiological prevalence, anatomic distribution and sharp/size of small pneumoconiotic opacities among New Mexico uranium industry workers, using B-Reads of chest radiographs from the Radiation Exposure Screening & Education Program (RESEP) database. This project is presenting a New Mexico specific cohort and large minority population.

**Isavannah Reyes**, St. Edward’s University, Mentor: Dr. Charles Hauser, Associate Professor, Bioinformatics
Oral Presentation, Session #3, Room: Fiesta B
*Comparison of Differential Expression Employing 3’ Tag Counting*

RNA degradation results in shortening of the RNA molecules. In RNASEq experiments that rely on mapping mRNAs to a reference genome, degradation results in underestimation of the number of molecules mapped to genes. Previously, RNA degradation was identified in samples used in RNASEq experiments, resulting in misreported differentially expressed genes (DEG’s). In this work, the method 3’ tag counting (3TC), which accounts for degradation by trimming gene models, was employed. It is expected that application of these methods will result in a more accurate representation of DEGs, and the number of false positives will decrease.

**Savannah Rivas**, University of New Mexico, Mentor: Dr. George Luger, Department of Computer Science
Both Oral & Poster Presentations, Session #6, Room: Fiesta A
*Computational and Probabilistic Perspectives on Language Acquisition*

Evolutionary developmental linguistics (EDL) is a new program of research that probes the context of language usage, especially biological factors. Researchers adopting an EDL framework investigate neurological mechanisms at play in language acquisition, as well as our unique stages of language development throughout childhood. EDL has been incorporated into theoretical studies, yet more literature is needed to examine EDL using computational methods. This research utilizes Python’s NLTK and CHILDES to explore the significance of storytelling and social interactions in language acquisition. We investigate many of the social variables at play in development, as well as the life stages of creative language usage. Thus this project contributes to the field of cognitive science, particularly developmental psychology, with further implications in NLP.
Oral and Poster Presentation Abstracts
(in alphabetical order based on presenter’s last name)

Jorge Rodela, Sul Ross State University,
Mentor: Dr. Byron Housewright, Assistant Professor, Department of Range and Animal Sciences
Both Oral & Poster Presentations, Session #2, Room: Fiesta B
Effects of Arginine in Equine Athletes

The equine industry plays a big role in American society, thus people involved in this industry are constantly looking for ways to reduce horses’ maintenance expenses, training time, and potential injuries during training. The purpose of this study was to examine the effects of arginine on equine athletic performance. Arginine is a semi essential amino acid that has been proven to improve performance in human athletes. Arginine is a natural inducer of the nitric oxide cycle (NO), which initiates vasodilation. A switch back method was used to supplement both control and experimental group. Horses were exercised at different gaits in order to be able to graph serum metabolites reaction to exercise. Exercise regimen was not intense enough to prove the effects of arginine. However, there were metabolite reactions had not previously been graphed or found in previous literature.

Karina Rodriguez, Sul Ross State University,
Mentor: Dr. Moreland
Both Oral & Poster Presentations, Session #6, Room: Spirit/Trailblazer
The Effect of the Mexican War on Drugs on Unexpected Migration from 2006-2012

This project investigates the impact of the Mexican War on Drugs on people relocating their residency, and evaluates how migration rates within and from Mexico are affected by government responses to organized crime in Mexico, especially drug violence. Statistical analysis was conducted on unexpected migration from each state from 2006-2012, to determine if the Mexican War on Drugs increased or reduced migration rates. Data from several Mexican government sources and military records shows how high-impact military operations led to lower unexpected migration rates, while general military operations led to higher migration rates. However, high impact operations did not reduce drug related homicides or the relationship between drug-related homicides and unexpected migration. These findings suggest the need for further consideration of whether the Mexican War on Drugs achieved its mission.
Oral and Poster Presentation Abstracts
(in alphabetical order based on presenter’s last name)

Kevin Rodriguez, Our Lady of the Lake University,
Mentor: Dr. Kathryn B. Anderson, Professor of Psychology, Department of Psychology
Oral Presentation, Session #9, Room: Fiesta B
Analyzing the Effects of Humanistic Information Toward the Support of Capital Punishment

Does humanistic information decrease the degree of support toward capital punishment in a sample of undergraduate students? The independent variable is the type of information/anecdote exposed to. The intervention methods in the study include students introduced to first-person information and detached information. The dependent variable is the degree of support toward the death penalty. The sample is 200 undergraduate students from a Catholic institution that will be randomly assigned to the type of information. The experiment will consist of One-IV, two group design. Results will be analyzed using the t-test for independent samples. It is expected that the students exposed to first-person information will demonstrate a decrease of support toward capital punishment than those students exposed to detached information.

Ione Rodriguez, Our Lady of the Lake University,
Mentor: Dr. Kathryn B. Anderson, Professor of Psychology, Department of Psychology
Oral Presentation, Session #5, Room: Santa Ana B
Perception of Hostility in High and Low Trait Aggressive Participants

This experiment tests whether participants high in trait aggression perceive an ambiguously aggressive interaction as more aggressive than do low trait aggression participants. Participants completed a trait aggression measure and then viewed a video that depicted an interaction that involves a pedestrian crossing the street while a car accelerates forward then quickly brakes, nearly hitting the pedestrian. Half of the participants viewed a video that did not show the driver and passenger and the other half of the participants viewed the same video that more clearly showed that the driver is a mother tending to her child, which provided a rationale of distraction for the accidental acceleration of the car. Participants then completed a rating of the perceived aggressiveness of the driver’s behavior and personality. Finally they completed a state hostility measure to assess how hostile they feel after watching the film clip.
Oral and Poster Presentation Abstracts
(in alphabetical order based on presenter’s last name)

**Sonora Rodriguez**, University of New Mexico,
Mentor: Dr. Claudia Isaac, Department of Community & Regional Planning
Both Oral & Poster Presentations, Session #2, Room: Santa Ana A
*Environmental Justice and Environmental Gentrification in Planning: A Case Study of the Historic Sawmill Community*

Environmental justice (EJ) research provides important insights into the transformation of many diverse historical and contemporary urban communities. My research includes a case study analysis of the Albuquerque Sawmill/Wells Park Community Metropolitan Redevelopment Area Plan. I explore EJ principles in urban planning and determine to what extent planners use these principles when constructing community plans. I will use planning theories from Lance Freeman and David Harvey to analyze whether or not gentrification has occurred. This study also aims to further define environmental gentrification, a theory by Melissa Checker, to explore whether EJ in urban development affects gentrification.

**Yaritza Ruiz**, University of New Mexico,
Mentor: Dr. Amy Neel, Department of Speech and Hearing Sciences
Both Oral & Poster Presentations, Session #1, Room: Acoma A
*Listener Profiles for Loud and Habitual Speech in Parkinson Disease*

This study examines speech intelligibility and the impact of speech parameters such as rate, stress, articulation, intonation, voice quality, and nasality on speech comprehensibility by comparing sentences produced in loud and habitual modes by speakers with Parkinson Disease. For the intelligibility task we will have 6 talkers with PD produce 12 sentences in their trained loud speech and habitual, and 32 listeners will transcribe words or utterances. For the second task listeners will rate (6 loud, 6 habitual) sentences for each speaker. The subjective and objective data will then be compared to create speech profiles for each speaker.
Briana Sais, University of New Mexico, Mentor: Dr. Carmen Samora, Department of Chicano/a Studies
Both Oral & Poster Presentations, Session #4, Room: Fiesta A
*I'm More American than You!*

Division continues to have a negative impact on the education of Mexican American students. Studies conducted recently have ranked New Mexico 49th in education. The importance of this research is to understand why Mexican American’s have not evolved in education in generation status. A multitude of issues that effect the MAS which includes obtaining a good, equal and quality education. Mexican American students are still subjected to injustices in education. Injustices and inequalities they have experienced for over a hundred years. The focus of this research will further investigate the Mexican American experience in education since the signing of the treaty of Guadalupe Hidalgo. More importantly why the education needs of New Mexican students are not being met? Contributions to this research stem from the fields of Education and Mexican American studies.

Amalia Sanchez Parra, University of New Mexico, Mentor: Dr. Charles Cunningham, Department of Biology
Both Oral & Poster Presentations, Session #12, Room: Acoma A
*Differential Gene Expression Observed in Schistosoma Mansoni Exposed to Lethal Doses of Praziquantel In Vivo*

Schistosomiasis is a parasitic disease affecting nearly 250 million people with 650 million living in endemic areas. Treatment has relied almost exclusively on praziquantel (PZQ), however, its molecular target and the reason for its reduced efficacy against juvenile parasites remain unknown. We hypothesize that differential regulation of genes whose products are involved in PZQ efflux may account for reduced effectiveness. The transcriptomic response of sexually mature and immature Schistosoma mansoni exposed to lethal doses of PZQ was studied in vivo. Here we analyze gene expression during the dosing period and in the 14 days thereafter. Understanding the transcriptomic response of juvenile parasites to PZQ provides insight into their protective mechanisms and thus may help develop more effective anthelmintic drugs.
Steven Sannoh, Trinity University,
Mentor: Dr. Julie Persellin, Director of Accounting, School of Business & Dr. Amy Holmes, Accounting Professor, School of Business
Poster Presentation
Emerging Growth Company (EGC) Status: An Analysis of the Persistence of Underpricing

The Jumpstart Our Business Start-ups (JOBS) Act was enacted in 2012 by the SEC to stimulate growth, and as a result, create more job opportunities. The Act attempted to encourage capital formation by creating a new category of issuer referred to as an Emerging Growth Company (EGC). Companies that qualify for this classification are granted concessions to the standard SEC rules of compliance in the form of reduced financial statement disclosures. Prior research suggests that a company filing as an EGC and utilizing the reduced disclosure requirements is associated with lower IPO prices and short-term underpricing. I extend this research by examining whether this underpricing persists in the long-term.

Blake Scott, University of New Mexico,
Mentor: Dr. Gary Weissmann, Department of Earth & Planetary Sciences
Both Oral & Poster Presentations, Session #6, Room: Acoma A
The Kosi River!

The basic course of study over the summer for this research project will be to study and examine archived satellite images of the Kosi River in India with the purpose of evaluating past changes in the river’s course and width. We will be conducting analyses of width for each individual year that LANDSAT data are available, and we will amalgamate the years to evaluate and map the ‘active’ channel belt over the past 20+ years. This analysis will be used to gain a greater understanding of the sedimentary rock record and potential geometries of sandstones from past rivers. This has application in hydrogeology and petroleum reservoir modeling.
Oral and Poster Presentation Abstracts  
(in alphabetical order based on presenter’s last name)

**Kerry Smith**, Louisiana State University,  
Mentor: Dr. Ryoichi Teruyama, Department of Biological Sciences  
Poster Presentation  
*Co-Localization And Expression Of Oxytocin And Vasopressin Neurons*

Oxytocin and Vasopressin magnocellular neurons are located within the hypothalamic paraventricular (PVN) and supraoptic (SON) nuclei. The paradigm has been that VP neurons express vasopressin and OT neurons express oxytocin. This experiment was done to see if OT and VP neurons produce both oxytocin and vasopressin. Single cell quantitative RT-PCR showed mean OT mRNA amount in OT neurons was 50 times higher than that in VP neurons; mean VP mRNA amount in VP neurons was 4 times higher than that in OT neurons. Results from in-situ hybridization demonstrate minute labeling of immunohistochemistry of OT observed in VP neurons, while no immunohistochemistry of VP was observed in OT neurons. Results suggest OT neurons show more cell type specific expression of OT.

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**Hayley Theriot**, Louisiana State University,  
Mentor: Dr. James Miller, Professor, Department of Pathobiological Sciences  
Poster Presentation  
*The Effects of Bedoukian Celery Extract on the Excystation of Sporocysts in Eight Eimeria spp. Found in Chickens*

The purpose of this study was to prevent the excystation of sporozoites which in turn aids in the prevention of coccidiosis. Throughout this study eight Eimeria species from Coccivac®-D2, a live vaccine containing live oocysts, were used in conjunction with seven different Bedoukian celery extracts. The process of excystation was recreated using the Fisher Scientific Sonic Dismembrator Model 500 to mimic the digestive process in chickens. At the end of the study it appears that Bedoukian celery extracts have a positive effect on the prevention of sporozoite excystation.
Elizabeth Torres, University of New Mexico,  
Mentor: Dr. Claudia Tesche, Department of Psychology  
Both Oral & Poster Presentations, Session #10, Room: Fiesta B  
Long-Term Effects of Transcranial Direct Current Stimulation in Conjunction with Post-Stroke Aphasia Language Therapy

Purpose: Stroke is the most prevalent cause of internal brain damage and the most preventable. For stroke survivors, approximately 80,000 individuals become aphasic each year. Studies have revealed the efficacy of transcranial direct current stimulation (tDCS) in conjunction with aphasia language treatment. 
Method: The double-blinded experiment by way of a within subjects design will include analyzing naming performance data for each. Implications and limitations will be evaluated utilizing traditional language therapy combined with tDCS. 
Results: There have been scores of research studies revealing the efficacy of tDCS in conjunction with aphasia language treatment.
Conclusion: It is now a matter of increasing long-term follow-up with patients and their families, which includes self-reporting of daily living activities, and repeating in order to establishing a collective treatment method.

Meilinn Tram, University of New Mexico,  
Mentor: Dr. Sheng Wu, Assistant Professor, Pediatrics and Physiology Department, Johns Hopkins University School of Medicine  
Both Oral & Poster Presentations, Session #9, Room: Acoma A  
Androgen Receptor Knockout In Ovarian Theca Cells Results In Altered Steroidogenesis In Diestrous Female Mice

Polycystic ovarian syndrome women exhibit hyperandrogenemia. Elevated androgen levels have been shown to have reproductive abnormalities in females. However, it is unknown which target organs are impacted by elevated androgen levels. This study aims to determine the role of androgen receptors (AR) on steroidogenesis and the reproduction of female mice in ovarian theca cells. Ovarian theca cell-specific androgen receptor knockout (ThARKO) mice have dramatically reduced AR expression levels. There was also no significant difference in estrous cyclicity or age at puberty. Ovaries of 2 month old control and ThARKO mice were collected at diestrus and ovarian gene expression. We observed an increased mRNA expression of cyp17 compared to control littermates. Although fertility was not altered, the AR in theca cells may play a role in steroidogenesis.
Nia Tyler, Abilene Christian University, Mentor: Phil Vardiman, Professor, Management
Oral Presentation, Session #10, Room: Acoma B

This study compares the methods that hospitals use to determine the billing and collections of patients who are insured by Medicare, Medicaid, or private insured companies. The scope for interpreting this research was conducted by using a mixed methodology that required an in-depth interview with a retired health care administrator and research that was specifically studied to analyze the administration costs of hospitals. The research that was found showed that the process of hospital billing is the same for every patient. However, there is a difference when the insurance companies are paying the hospitals.

Bertha Valdez, University of New Mexico, Mentor: Dr. David Witherington, Department of Psychology
Both Oral & Poster Presentations, Session #10, Room: Santa Ana B
How Does Preschoolers’ Fear of the Dark Relate to Their Fear of Monsters?

This investigation will be designed to see what underlies between fears of the dark in preschooler’s. Past research used parent-report and self-report interviews, surveys, FSSC-R studies and assessed to identify the different fears in children. In this study, five measures will be structured; semi-structured interviews, parent questionnaire, drawing task, matching/sorting task, standard self-report task. The purpose is to capture from all assessments to make sense what the pre-school child might or will say or draw. Most pre-school children don’t articulate full cognitive skills to express their thoughts, the target is to focus “fear of the dark.”
Pia Valdez, University of New Mexico,  
Mentor: Dr. Bruce Smith, Department of Psychology  
Both Oral & Poster Presentations, Session #11, Room: Santa Ana A  
Character Strengths, Well-Being, and Life Satisfaction  

The purpose of this study is to better understand the relationship between human strengths and well-being. The literature reviews shows that the various measurements of strengths are related to various aspects of well-being. Through the examination of the correlation between the VIA and GNH surveys. These questionnaires include these surveys were completed by approximately 300 undergraduates at a major South West university. The trifold hypothesis will address the following and make predictions: Hypothesis 1: There will be a positive correlation between the mean level of all VIA strengths and each component of well-being. Hypothesis 2: The strengths that will have the strongest correlation with the components of well-being will be curiosity, gratitude, hope, love, and zest. Hypothesis 3: The mean level of all strengths will have the strongest correlation with the components of well-being that assess psychological or subjective well-being. Exploratory Hypothesis: To compare the correlations between the individual strengths and the individual components of well-being to determine which are larger and smaller.

Fabiola Vargas, Abilene Christian University,  
Mentor: Cherisse Flanagan, Assistant Professor and Associate Director of ACU Psychology Clinic  
Oral Presentation, Session #8, Room: Santa Ana B  
Aggression and Maternal Discipline in Adolescence  

The present study investigated the relationship of aggression in adolescents ages 13-17 and maternal permissive parenting style. Research on Baumrind’s parenting styles has previously shown authoritarian parenting styles are associated with aggression; however research on the permissive parenting style is scarce. Measures used in this study were the Aggression Questionnaire and Parenting Style Questionnaire. Maternal figure’s permissiveness and gender differences were studied to find a correlation with aggression. No relationship was found between maternal permissiveness and adolescent aggression in boys or girls.
**Briana Villegas**, University of New Mexico,  
Mentor: Dr. Veronica Plaza, Lecturer III, Department of Spanish  
Both Oral & Poster Presentations, Session #9, Room: Acoma B  
*Education As A Social Determinant Of Health*  

The proposed research project is a public education and health research intervention. Intended to carry on a needs assessment, identify obstacles that Van Buren Middle School adolescents may face, and design community engagement to help reach higher academic achievement. An after school program partnership, Planning to Achieve Collegiate Excellence (PACE), initiated via student organization at UNM, has been ongoing since the fall of 2013. The adolescents involved with PACE are considered “at risk” kids. Children classified as “at risk” face socioeconomic issues and thus can create educational disadvantages. The study will consist of a standardized survey and randomized interviews, health literacy workshops in hopes to see an increase within educational achievement.

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**James Westphall**, University of New Mexico,  
Mentor: Dr. Patricia L Hintz Gillikin, Professor, Department of English  
Both Oral & Poster Presentations, Session #8, Room: Spirit/Trailblazer  
*Fanfiction Studies*  

This presentation will discuss fanfiction, the benefits therein, and how writing fanfiction can be used as a means of transitioning from amateur to professional. It will consist of a short history of fanfiction from zines in the sixties to internet communities in the present. It will include a breakdown of the types of benefits that can be garnered from writing fanfiction, and how some fanfiction writers have gone on to become professionals in the writing industry.
Regine Yaites, Abilene Christian University,  
Mentor: Brenda Bender, Associate Professor, Department of Communication Sciences and Disorders  
Oral Presentation, Session #3, Room: Acoma A  
*Long Term Effects of Speech Therapy in Aphasia*

This study investigated long-term effects of aphasia treatment in a participant previously treated with CIATplus therapy. Using a word list of 51 color photographs used by Askins et al. (2013) the participant’s verbal naming abilities were re-assessed. The participant’s scores yielded a 4% to 8% increase beyond the post-treatment scores in her independent naming abilities, a 23% increase when naming untrained generalization words and an 8% decrease when naming trained baseline words compared to the post-treatment scores. It appears CIAT therapy provided a springboard effect for continued improvement in verbal naming for this participant.

Rex Yeigh, University of Wyoming,  
Mentor: Dr. Hannah Jang-Condell, Assistant Professor, Department of Physics & Astronomy  
Oral Presentation, Session #9, Room: Fiesta A  
*Planetary Photometry using a Robotized Telescope*

This research gathered data using the Transit Photometry method. Targets found by Kepler and KELT exoplanet surveys were observed at the Red Butts Observatory. The data was then reduced and organized into “light curves”, a plot of light intensity vs time observed. Results on 2 targets are available and look promising. The dip in light intensity matches well with the known value indicating our data collection methods were on par with other observers. The data collected could be used to determine the radius of the exoplanet and the distance from its parent star.
Rebecca Zapata, St. Edward’s University,
Mentor: Dr. Teri Varner, Associate Professor, Communication
Oral Presentation, Session #5, Room: Santa Ana A
Women of Color and Barriers in Organizational Leadership

Women of color have progressed into leadership positions in various organizations, yet they remain underrepresented in top levels. The present study utilizes mixed methods to analyze factors that women of color have encountered within their organizations. Results from the online survey of 47 participants indicate a variety of barriers women of color experience in their respective jobs. Implications of this study for women of color, leadership, and interpretations are offered.
UNM Career Services Graduate and Professional School Fair
List of participating institutions/programs
SUB Ballrooms B & C, Thursday, October 1, 2015

A.T. Still University
Across the Pond
Arizona Professional School of Psychology at Argosy University
Arizona Summit Law School
Baylor Law School
Cold Spring Harbor Laboratory
Emporia State University
Iliff School of Theology
Loyola University New Orleans College of Law
Midwestern University
Missouri State University - Graduate College
National College of Natural Medicine
New Mexico State University Master of Social Work
New Mexico Tech
Oklahoma City University School of Law
Parker University
Peabody College
Portland State University
Roger Williams University School of Law
Saint Louis University
Sam Houston State University
South Texas College of Law
Southern Methodist University Dedman School of Law
Southwestern Law School
St. Mary’s University
Texas Chiropractic College
Texas Tech University School of Law
The Graduate School at Texas Tech University
The University of Arkansas - Graduate School
TTUHSC School of Health Professions
TX A&M Health Science Center-School of Rural Public Health
UC Berkeley/American Indian Graduate Program
University of Arizona Graduate College
University of California, Davis
University of Colorado Colorado Springs
University of Denver Sturm College of Law
University of Houston-Clear Lake
University of Michigan
University of Michigan School of Social Work
University of Nevada, Las Vegas, William S Boyd School of Law
University of New Mexico College of Pharmacy
University of New Mexico School of Law
University of North Texas
University of San Diego School of Law
University of San Francisco School of Law
University of St. Augustine for Health Sciences
University of the Incarnate Word School of Optometry
University of the Incarnate Word School of Physical Therapy
University of the Pacific, McGeorge School of Law
University of Wisconsin-Madison Bioscience Graduate Programs
University of Wyoming
University of Wyoming, Political Science Department
UNM Anderson School of Management
UNM Army ROTC
UT Arlington
Vermont Law School
Washington State University
Washington University in St. Louis- Brown School
West Texas A&M University
Western New England University School of Law
Willamette University College of Law

List includes schools registered as of 9/21/15. There will be others in attendance.
# 2015 UNM McNair Scholars Research Conference

## Concise Agenda

(detailed agenda on pages 5-6)

### DAY 1: THURSDAY, OCTOBER 1, 2015 UNM Campus

Most events held in the Student Union Building (SUB)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 a.m. – 10:00 a.m.</td>
<td>Conference Registration</td>
<td>Ballroom A, Student Union Building</td>
</tr>
<tr>
<td>9:00 a.m. – 10:15 a.m.</td>
<td>Breakfast &amp; Networking Event</td>
<td>Ballroom A, Student Union Building</td>
</tr>
<tr>
<td>10:30 a.m. – 11:50 a.m.</td>
<td>Graduate &amp; Professional School Fair</td>
<td>Ballrooms B &amp; C, Student Union Building</td>
</tr>
<tr>
<td>12:00 p.m. – 1:30 p.m.</td>
<td>Lunch &amp; McNair Alumni Ph.D. Speaker</td>
<td>Ballroom A, Student Union Building</td>
</tr>
<tr>
<td>1:45 p.m. – 3:15 p.m.</td>
<td>Research Poster Presentations &amp; Networking</td>
<td>Plaza Atrium, Student Union Building 1st Level</td>
</tr>
<tr>
<td>3:15 p.m. – 5:15 p.m.</td>
<td>Student &amp; Staff Workshops and Campus Tour</td>
<td>SUB (workshops 3rd level, tour leaves from Atrium)</td>
</tr>
<tr>
<td>6:00 p.m. – 8:00 p.m.</td>
<td>Conference Banquet Dinner: Keynote:</td>
<td>Ballroom C, Student Union Building</td>
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</tbody>
</table>

### DAY 2: FRIDAY, OCTOBER 2, 2015 UNM Campus

All events held in the Student Union Building (SUB)

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>8:15 a.m. – 9:15 a.m.</td>
<td>Breakfast</td>
<td>Ballroom C, Student Union Building</td>
</tr>
<tr>
<td>12:15 p.m. – 1:15 p.m.</td>
<td>Lunch</td>
<td>Ballroom C, Student Union Building</td>
</tr>
<tr>
<td>3:30 p.m. – 4:00 p.m.</td>
<td>Closing Ceremony</td>
<td>Ballroom C, Student Union Building</td>
</tr>
</tbody>
</table>