

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS



**20th**  
**STUDENT**  
**RESEARCH**  
CONFERENCE

March 4-6, 2025  
Loker Student Union

# Congratulations from President Parham

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It is my distinct honor and privilege to welcome you all to this year's Student Research Conference. Today, we celebrate the spirit of inquiry, discovery, and innovation that defines our university.

This year marks the 20<sup>th</sup> Anniversary of our Student Research event, and I could not be prouder of all our student researchers who have taken the initiative to pursue their passions and contribute to the production of knowledge in their chosen fields. Your commitment to scholarship and your search for answers to complex questions inspire us all. Whether your work challenges conventional wisdom, seeks to illuminate untold stories, or forges new paths in science, technology, arts, and beyond, you exemplify the brilliance and resilience of our Toro community.

This conference is more than an event; it is a testament to the power of curiosity and the transformative roles that research and education play in shaping a better world. It is an opportunity for our community to engage with the future leaders, thinkers, and innovators currently completing their degrees at Dominguez Hills.

To our faculty, staff, and supporters—thank you for nurturing the potential of our students, for walking alongside them on this academic journey, and for inspiring them to challenge themselves to go further—to identify a specific research question that intrigues them, develop and implement a plan, and then present it to the broader Toro community at the Student Research Conference. These experiences can be truly transformative. I would like to thank Dean Sheree Schragger and the dedicated SRC team, as well as the many faculty and staff members who serve as research mentors, organizers, and judges, and who continue to make this amazing opportunity available to our student researchers year after year.

Congratulations to all our participants, and welcome to everyone within the Toro and broader South Bay communities who join us to celebrate an exciting week of exploration and inspiration.

A handwritten signature in blue ink that reads "Thomas Parham". The signature is fluid and cursive, with a large initial "T" and "P".

Thomas A. Parham, Ph.D.  
*President*

# Welcome to SRC 2025!

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Welcome to the **20<sup>th</sup> Annual Student Research Conference** at California State University, Dominguez Hills! This is our fourth year having the honor of co-chairing the event, and we continue to be in awe of the accomplishments of our student researchers.

This week, we come together to celebrate the incredible creativity, dedication, and scholarship of our student researchers, whose work embodies the spirit of innovation and discovery that defines our university. This event not only showcases the hard work and achievements of our students but also underscores the strength and vibrancy of the broader Toro community.

To our student participants, congratulations on reaching this important milestone! The research you present this week represents countless hours of curiosity, determination, and perseverance. Your work pushes the boundaries of knowledge, sheds light on new ideas, and addresses the challenges of our time. You are a shining example of what it means to be a Toro, and we are proud to honor your efforts and the promise you bring to the future.

We also want to express our deepest gratitude to the mentors, faculty, and staff who have played an essential role in supporting our students. Your guidance, encouragement, and expertise have been instrumental in helping our researchers develop their ideas and realize their potential. To the many faculty, staff, and volunteers who have contributed their time and energy to organize this event and serve as judges, thank you for your commitment to fostering excellence and creating opportunities for our students to thrive.

As we gather to share ideas, learn from one another, and celebrate the transformative power of research, let us all congratulate the truly impressive accomplishments of our students and look forward to the possibilities ahead.

Sincerely,

Cheyenne Cummings, MS, MA  
*Lecturer & Instructional Assistant*  
*Student Research Conference Co-Chair*

Ken Seligson, PhD  
*Associate Professor of Anthropology*  
*Student Research Conference Co-Chair*

## Keynote Speaker

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### **Karla Torres**

CSUDH Class of 2023

Data Labeling Specialist

Meta

Karla Torres is a linguist and a proud alumna of CSUDH, where she earned a B.A. in English Education and an M.A. in Teaching English as a Second Language. Her academic background in language education and linguistics shapes her work at the intersection of language, technology, and culture. Karla currently serves as a Data Labeling Specialist at Meta, collaborating with the Product Data Operations team to enhance Conversational AI. She applies her linguistic expertise to refine AI-driven language models, ensuring they reflect the complexity and diversity of human language.

Her research interests center on Chicana language varieties, sociocultural linguistics, and second language acquisition. Under the mentorship of Dr. Lara Mantenido at CSUDH, Karla conducted various research projects exploring how language reflects identity and culture, particularly within marginalized communities. She has also worked as a research assistant on a corpus linguistics project, focusing on sentence-level labeling. Karla has presented her research at academic conferences, including the CSUDH SRC, discussing methodologies and insights that address the social and cultural dimensions of language.

In addition to her research, Karla has extensive experience as an academic tutor in higher education. She is dedicated to fostering inclusive learning environments and promoting critical engagement with language and culture. Blending her research expertise with her work in AI, Karla is dedicated to advancing more inclusive and representative language technologies that reflect the richness of diverse voices and experiences.

# Conference Schedule

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## Tuesday, March 4, 2025

### Loker Student Union

9:00 – 9:30 a.m.	Registration
9:30 – 11:30 a.m.	Morning Sessions
12:00 – 1:30 p.m.	Welcome Event & Keynote Address, Ballroom C ( <a href="#">Zoom link for remote viewing</a> )
11:45 a.m.	Doors Open, Refreshments Available
12:15 p.m.	Welcome to SRC 2025 Dean Sheree Schrager
12:20 p.m.	Celebrating 20 years of SRC Acting Provost Philip LaPolt
12:30 p.m.	Keynote Address Karla Torres, CSUDH '23
2:30 – 4:00 p.m.	Mid-Afternoon Sessions
4:00 – 4:15 p.m.	Late Afternoon Sessions
5:30 – 7:15 p.m.	Evening Sessions

## Wednesday – March 5, 2025

### Loker Student Union

9:00 – 10:00 a.m.	Registration
10:00 – 11:30 a.m.	Morning Sessions
1:00 – 2:30 p.m.	Early Afternoon Sessions
4:00 – 5:15 p.m.	Late Afternoon Session
5:30 – 7:00 p.m.	Evening Sessions

## Thursday – March 6, 2025

### Loker Student Union

8:30 – 9:00 a.m.	Registration
9:00 – 11:30 a.m.	Morning Sessions
12:00 – 1:30 p.m.	Reception and Awards Ceremony, Ballroom C ( <a href="#">Zoom link for remote viewing</a> )
11:45 a.m.	Doors Open, Refreshments Available
12:15 p.m.	Congratulations to the SRC 2025 Participants Vice Provost Ken O'Donnell
12:30 p.m.	Announcing the Award Winners SRC Co-Chairs Cheyenne Cummings and Ken Seligson

# SRC 2025 Award Categories

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## Sponsored by the Office of Graduate Studies and Research

Undergraduate Oral Overall 1<sup>st</sup> Place - \$100      Graduate Oral Overall 1<sup>st</sup> Place - \$100  
Undergraduate Poster Overall 1<sup>st</sup> Place - \$50      Graduate Poster Overall 1<sup>st</sup> Place - \$50

1<sup>st</sup>-Place Certificates Awarded in all Sessions      2<sup>nd</sup>-Place Certificates Awarded in Sessions  
with 5 or More Presentations

## Sponsored by CalWater and the Office of Sustainability

Sustainability Engagement Award: presented to recognize research contributing to understanding or advancing sustainability in society.

- Plaque (individual award) or Certificate (group award) + \$100 (Amazon gift card) each awardee (up to 3 in group)

Environmental Sustainability Award: presented to recognize research analyzing anthropogenic effects on the natural environment.

- Plaque (individual award) or Certificate (group award) + \$100 (Amazon gift card) each awardee (up to 3 in group)

Environmental Justice Award: presented to recognize research that examines issues related to or directly advances environmental justice.

- Plaque (individual award) or Certificate (group award) + \$100 (Amazon gift card) each awardee (up to 3 in group)

CALL (Campus as a Living Lab) Sustainability Award: presented to recognize research or analysis that uses the campus' own infrastructure and operations as a living laboratory for examining issues related to sustainability. This should be accomplished either using the campus facilities or student population as the main focus of the study.

- Plaque (individual award) or Certificate (group award) + \$100 (Amazon gift card) each awardee (up to 3 in group)

## Sponsored by the Department of Asian Pacific Studies

Asian Pacific Student Research Award – Certificate presented to the best Asian Pacific research presentation.

**Sponsored by the University Bookstore  
Follett (Rick Dorsey – Market Leader)**

Cap and Gown Award – Graduation cap, gown, tassel, and sash presented to an exceptional project by a student graduating this semester.

**Sponsored by the Omicron Rho Chapter of Sigma Gamma Rho Sorority, Inc.**

Excellence in Research Oral Presentation – Awarded to the undergraduate student who delivers the most compelling and well-organized research oral presentation, demonstrating clarity, professionalism, and depth of knowledge in their field. (\$100)

Excellence in Research Poster Presentation – Awarded to the undergraduate student who delivers the most compelling and well-organized research poster presentation, demonstrating clarity, professionalism, and depth of knowledge in their field. (\$100)

Innovative Research Award – Recognizing the undergraduate research project that introduces a novel approach, methodology, or creative solution to a pressing issue in their discipline. (\$100)

Community Impact Award – Presented to the undergraduate research project with the most significant real-world application, addressing societal needs, community challenges, or public health concerns. (\$100)

Emerging Scholar Award – Honoring an outstanding first-time undergraduate research presenter who shows promise and excellence in their research endeavors. (\$100)

**Sponsored by the University Library**

Library Research Award: Certificate presented to the student poster presentation that best engages with the relevant literature on their topic.

# CSUDH Research Mentors

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<b>Anthropology</b>	Sarah Cote, William Lucas, Ken Seligson
<b>Art and Design</b>	Kirstin L. Ellsworth, Di Xu
<b>Biology</b>	David Ann, James L. Figarola, Isaac Garcia, Kamrul Hasan, Samantha Leigh, Tali Kiperman, Karin Kram, Ke Ma, Charlene McCord, Enrique Montero, Shehla Pervin, Xiaoli Ping, Cauis Radu, Jyotsana Singhal, Sonal Singhal, Thomas Taylor, Justin Valliere
<b>Chemistry and Biochemistry</b>	Amine Laradji, Barbara Belmont, Erin McCauley, Kari Pederson
<b>Chicana &amp; Chicano Studies</b>	Miguel Gutierrez
<b>Child Development</b>	Christina Toolan
<b>Clinical Science</b>	Jahan Abdi, Payman Nasr
<b>Computer Science</b>	Akshan Jalooli, Malcolm McCullough, Bin Tang
<b>Criminal Justice Administration</b>	Diego Avalos, Sarah Britto
<b>Earth Science and Geography</b>	Parveen Chhetri
<b>English</b>	Roderick Hernandez, Andrew Kalaidjian, Iara Mantenuto, Helen Oesterheld, Malik Stevenson
<b>Health Sciences</b>	Matt Mutchler, Pari Sabado
<b>History</b>	Andrea Johnson, Daniel Santana, Kerry Shannon
<b>Information Systems</b>	Nancy Deng, Jian-yu (Fisher) Ke, Myron Sheu
<b>Labor Studies</b>	Alfredo Carlos
<b>Management and Marketing</b>	Thomas Norman
<b>Marital &amp; Family Therapy</b>	La-Quesha Robinson
<b>Mathematics</b>	Jessalyn Bolkema, Sharon Lanaghan, Carolyn Yarnall
<b>Modern Languages</b>	Melissa González-Contreras
<b>Occupational Therapy</b>	Yan-Hua Huang, Sheryl Ryan
<b>Orthotics and Prosthetics</b>	Mark Cromer, Ava Herbrick, Mojtaba Kamyab, Mark Muller
<b>Physics</b>	Antonia Boadi, Horace Crogman, To Dang, Lamar Glover, Apostol Gramada, John Price
<b>Psychology</b>	Erin Barrett, Jeffrey K. Bye, Kaylie Carbine, Erica Diminich, Steven Frieze, Maria Hurtado-Ortiz, Ashley Membere, Kevin Montes, Kim Proctor, Silvia Santos, Carl Sneed, Monique Turner, Irene Tung, Tara Victor, David Weissman
<b>Public Administration</b>	Elena Kulikov, Qiyuan (Roger) Jin, Fynnwin Prager, Rui Sun, Zheng Yang
<b>School &amp; College Counseling</b>	Margarita Landeros, Adrieann Mancillas
<b>Sociology</b>	Esther Castillo, LaTanya Skiffer, Billy Wagner-Huang
<b>Special Education</b>	Kai Greene
<b>Teacher Education</b>	Sumino Otsuji



# Judges and Moderators

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Jahan Abdi	Brynn Heckel	Cihtli Ocampo
Judy Aguirre	Maria Hurtado-Ortiz	Lauren Outland
Benyamin Ahmadnia	Alireza Izaddoost	Sheela Pawar
Adekunle Aina	Ricardo Izurieta	Kari Pederson
Amy Allen	Joshua Jeffers	Gina Phelps
Roya Azizi	Anupama Joshi	Fynnwin Prager
Anna Baird	Mojtaba Kamyab	Kim Proctor
Erin Barrett	Chacko Kannothra	Kresh Reil
Tracy Becerra-Culqui	Heather Kitching	Parichart Sabado
Leeanne Bergeron	Kara Kogachi	Cynthia Sanchez Tapia
Amber Borchert	Elena Kulikov	Daniel Santana
Sarah Britto	Vera Kunte	Ken Seligson
Abbie Bryant	Megumi Kuwabara	Laura Serrano
Jeffrey Bye	Margarita Landeros	Kerry Shannon
Meredith Caliman	Amine Laradji	Morgan Siewert
Kathleen Conner	Hannah Lee	Minhye Son
Alexandra Convertino	Angelica Lopez Fraire	Ray Sumner
Cheyenne Cummings	Jess Marinaccio	Kathryn Theiss
Begona de Velasco	Erin McCauley	Christina Toolan
Sara Díaz-Montejano	Dan Meller	Irene Tung
Erica Diminich	Nancy Melucci	Sarah Turkel
Lynette Dixon	Ashley Membere	Monique Turner
Sherine El hag	Christopher Monty	Marisela Velazquez
Rida Elias	Purnima Mudnal	Song Wang
Oona Fontanella-Nothom	Payman Nasr	David Weissman
Paul Fornelli	Ha Nguyen	Md Zubair Zuven
Nestor Garza	Thomas Norman	

## Event Organizers

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Cheyenne Cummings, Co-chair	Briana Coleman	Lorna Schallig
Ken Seligson, Co-chair	Aysa Monae Collins	Laura Serrano
Sheree Schrager, Dean	Gillian Fischer	Rowynn Spencer
Judy Aguirre	Imelda Hammes	Se'koi Strong
Janet Alvarez	Dakota Hughes	Danny Tamayo
Tigress Briggs-Wroten	Chi Nguyen	Michelle Waiters Martinez
Nikya Bryant	Shalece Prejean	
Vanessa Cervantes	Darren Roberts	

## SRC 2025 Planning Committee

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Erin Barrett	Vera Kunte	Sheryl Ryan
Kimberly Campos	Margarita Landeros	Minhye Son
Vanessa Castellanos	Jessica Loa	Jasmine Vaca
Gioella Chaparro	Maryam Maleki	Annalyn Valdez Dadia
Paul Fornelli	Iara Mantenido	Marisela Velazquez
Melissa González-Contreras	Jess Marinaccio	Nicole Wood
Aemelia Hellgren	Ellie Perry	Zheng Yang
Yea Ji Kim	Kim Proctor	Doron Zinger

## Tuesday, March 4 - Presentation Schedule

Session	Discipline	Location
# 1	Health, Nutrition, and Clinical Sciences Graduate Oral	LSU Ballroom C 9:30 a.m. – 11:15 a.m.
# 2	Biological and Agricultural Sciences Undergraduate Oral	LSU 324 9:30 a.m. – 11:15 a.m.
# 3	Humanities and Letters Undergraduate Oral I	LSU 326 10:00 a.m. – 11:15 a.m.
# 4	Physical and Mathematical Sciences and Engineering Undergraduate Poster	LSU Ballroom A & B 10:00 – 11:30 a.m.
<b>SRC 2025 Welcome Event</b> Live in-person and streamed <a href="#">via Zoom</a>		LSU Ballroom C 12:00 p.m. – 1:30 p.m.
#5	Health, Nutrition, and Behavioral Sciences Undergraduate Oral	LSU 324 2:30 – 4:00 p.m.
# 6	Behavioral and Social Sciences Graduate Poster	LSU Ballroom A & B 2:30 – 4:00 p.m.
# 7	Health, Nutrition, and Clinical Sciences Undergraduate Poster	LSU Ballroom A & B 2:30 – 4:00 p.m.
#8	Business, Economics, and Public Administration Undergraduate Oral	LSU Ballroom C 2:30 – 4:30 p.m.
#9	Undergraduate Symposium: Pre-Migration Trauma and Nativity Status as Predictors of Resilience in Hispanic/Latino Adults at Midlife Residing in the Rural Northeast	LSU 326 4:00 – 5:15 p.m.
#10	Developmental Poster Session: Behavioral and Social Sciences, Education and Health	LSU Ballroom A & B 4:00 – 5:15 p.m.
#11	Behavioral and Social Sciences Graduate Oral	LSU Ballroom C 5:30 – 7:15 p.m.
#12	Physical and Mathematical Sciences Undergraduate Oral	LSU 324 5:30 – 7:00 p.m.
#13	Undergraduate Symposium: Female Agency in Mexican Literature	LSU 326 5:30 – 6:30 p.m.
#14	Behavioral and Social Sciences Graduate Poster II	LSU Ballroom A & B 5:30 – 7:00 p.m.
#15	Behavioral and Social Sciences Undergraduate Poster I	LSU Ballroom A & B 5:30 – 7:00 p.m.
#16	Undergraduate Roundtable	LSU 322 5:30 – 7:00 p.m.

## Wednesday March 5 - Presentation Schedule

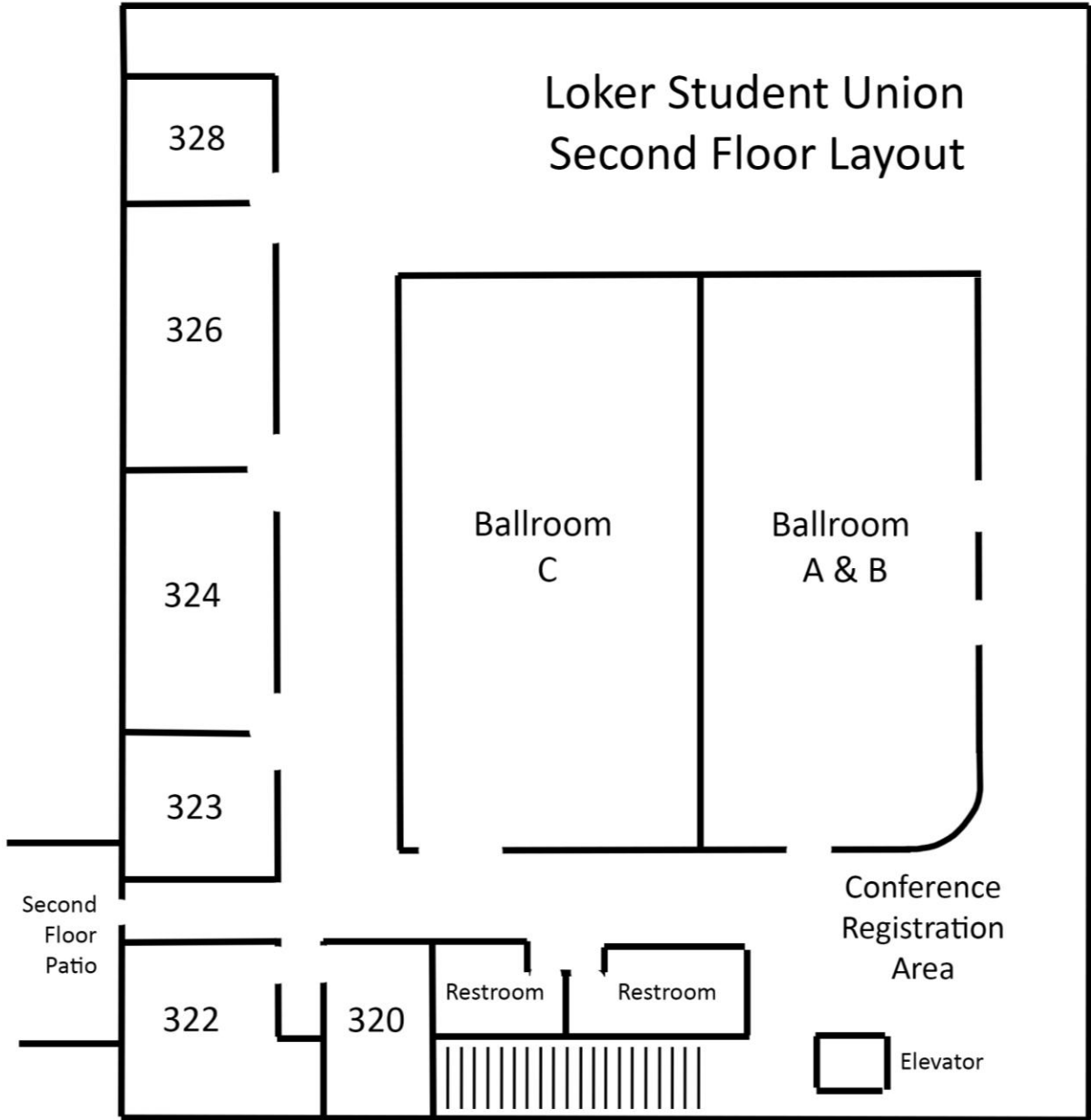
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Session	Discipline	Location
# 17	Behavioral and Social Sciences Graduate Oral II	LSU Ballroom C 10:00 – 11:30 a.m.
# 18	Behavioral and Social Sciences Undergraduate Poster II	LSU Ballroom A & B 10:00 – 11:30 a.m.
#19	Physical and Natural Sciences, Computer Science and Engineering Graduate Oral	LSU 324 10:00 a.m. – 11:30 a.m.
<b>Break</b>		
# 20	Health, Nutrition, and Clinical Sciences Graduate Oral II	LSU Ballroom C 1:00 – 2:30 p.m.
# 21	Humanities and Letters Undergraduate Oral II	LSU 326 1:00 – 2:30 p.m.
# 22	Health, Nutrition, and Clinical Sciences Graduate Poster	LSU Ballroom A & B 1:00 – 2:30 p.m.
# 23	Biological and Agricultural Sciences Undergraduate Poster I	LSU Ballroom A & B 1:00 – 2:30 p.m.
# 24	Education (Developmental I) Graduate Oral	LSU 324 4:00 – 5:00 p.m.
<b>Break</b>		
# 25	Health, Nutrition, and Clinical Sciences Graduate Oral III	LSU Ballroom C 5:30 – 6:30 p.m.
# 26	Undergraduate Symposium: Latin American Literature Responds to Oppression	LSU 326 5:30 – 6:30 p.m.
# 27	Education and Public Administration (Developmental II) Graduate Oral	LSU 324 5:30 – 7:00 p.m.
#28	Physical and Mathematical Sciences Undergraduate Poster	LSU Ballroom A & B 5:30 – 7:00 p.m.
#29	Behavioral & Social Sciences, and Education Undergraduate Poster	LSU Ballroom A & B 5:30 – 7:00 p.m.
#30	Graduate Student Roundtable	LSU 322 5:30 – 7:00 p.m.

## Thursday March 6 - Presentation Schedule

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Session	Discipline	Location
# 31	Education Graduate Oral	LSU Ballroom C 9:00 – 11:00 a.m.
# 32	Biological and Agricultural Sciences Undergraduate Poster II	LSU Ballroom A & B 9:30 – 11:00 a.m.
# 33	Behavioral and Social Sciences and Education Undergraduate Oral	LSU 326 10:00 – 11:00 a.m.
#34	Education (Developmental III) Graduate Oral	LSU 324 10:00 – 11:30 a.m.
<b>Closing Reception and Awards Ceremony</b> Live in-person and streamed <a href="#">via Zoom</a>		LSU Ballroom C 12:00 – 1:30 p.m.



# **STUDENT RESEARCH CONFERENCE 2025 VENUE MAP**

# TUESDAY, MARCH 4<sup>th</sup>

## #1 Health, Nutrition, and Clinical Sciences

### Graduate Oral, March 4<sup>th</sup> — LSU Ballroom C

#### Tuesday Morning Session: 9:30 a.m. – 11:15 a.m.

- 9:30-9:40 a.m. **Christine Pham, Emi Okuno, Juliana Trang, and Tai-Wei Wang**  
*Occupational Therapists: Comfortability with Touch*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 9:45-9:55 a.m. **Elena Murray, Kaylena Ledoux, Kacie Lackey, and Yaset Magdaleno**  
*Technology and Independent Health Management: Perceptions of Older Adults*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 10:00-10:10 a.m. **James Reyes, Henry Tran, Anthony Tan, and Eaton Simpliciano**  
*Navigating the New Battlefield: A Qualitative Study on Veterans' Transition Home*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 10:15-10:25 a.m. **Michael Hendrickson, Joanne Kang, Justin Min, and Gloria Lu**  
*Experiences and Perceptions of Neurodivergent Adults in the Christian Church Context*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 10:30-10:40 a.m. **Chirayu Chaudhary and Alice Hoang**  
*Megaloblastic anemia - B12 deficiency*  
Research Mentors: Payman Nasr and Jahan Abdi (Clinical Science)
- 10:45-10:55 a.m. **Samantha Diang, Jessica Carreon, Heaven Cosca, and Stephanie Fortunato**  
*Attitudes, Beliefs, and Experiences of Second-Generation Immigrant College Students on Mental Health and Wellness*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 11:00-11:10 a.m. **Janna Emery**  
*Understanding the mechanism of blood cancer cell destruction by natural killer cells using an in vitro model system*  
Research Mentor: Jahan Abdi (Clinical Science)

## #2 Biological and Agricultural Sciences

### Undergraduate Oral, March 4 — LSU 324

#### Tuesday Morning Session: 9:30 a.m. – 11:15 a.m.

- 9:30-9:40 a.m. **Amber Alvarado, David Gonzalez, and Jorge Ruiz**  
*A Historical Time Series of Microplastic Contamination in Commercially Important Fish Species*  
Research Mentor: Samantha Leigh (Biology)
- 9:45-9:55 a.m. **Christian Pasos**  
*Sand Dollar Survey*  
Research Mentor: Sonal Singhal (Biology)

- 10:00-10:10 a.m. Gisela Alvarez**  
Investigating the Role of Electric Cell-substrate Impedance Sensing (Ecis) In Real-time Monitoring of Cannabinoid-induced Modulation of Cell Adhesion and Migration In Cancer Cells  
Research Mentor: Horace Crogman (Physics)
- 10:15-10:25 a.m. Vincent Espinoza**  
*Non-invasive tracking of T-cells with CD3e PET Imaging*  
Research Mentor: Erin McCauley (Chemistry and Biochemistry)
- 10:30-10:40 a.m. Peace Clement and Gisela Alvarez**  
*Comparative Effects of Synthetic Tetrahydrocannabinol Analog and Epigallocatechin gallate (EGCG) on Oxidative Stress and Cell Cycle Regulation in Cancer and Normal Cell Lines*  
Research Mentor: Horace Crogman (Physics)
- 10:45-10:55 a.m. Amber Alvarado**  
*Native Garden Survey and Restoration Project*  
Research Mentors: Brenton Spies (CSUCI) and Sonal Singhal (Biology)
- 11:00-11:10 a.m. Alexandria Calderon**  
*The Role of SdhE in Escherichia coli's Ability to Develop Growth Advantage in Stationary Phase Phenotype*  
Research Mentor: Karin Kram (Biology)

## #3 Humanities and Letters Undergraduate Oral I

### March 4<sup>th</sup> — LSU 326

#### Tuesday Morning Session: 10:00 – 11:15 a.m.

- 10:00-10:10 a.m. Denice Perez**  
*Marriage and Melancholia: Navigating Wellbeing and Gender Roles in 18th Century Literature*  
Research Mentors: Andrew Kalaidjian and Helen Oesterheld (English)
- 10:15-10:25 a.m. Jose Dominguez**  
*Media and Heteronormativity During the Pandemic*  
Research Mentor: Andrea Johnson (History)
- 10:30-10:40 a.m. Reese Santonil**  
*The Development of Archaeological Virtual Reality*  
Research Mentor: Ken Seligson (Anthropology)
- 10:45-10:55 a.m. Efraín Contreras**  
*The Cold War, Dodger Stadium, and The Los Angeles Times: the Creation of Modern Los Angeles*  
Research Mentor: Kerry Shannon (History)
- 11:00-11:10 a.m. Hector Hernandez**  
*Ulama: Comparisons of the Modern Ballgame to its Predecessors*  
Research Mentor: Ken Seligson (Anthropology)



## #4 Physical, Mathematical, and Computer Sciences

### Undergraduate Poster, March 4<sup>th</sup> — LSU Ballroom A & B

#### Tuesday Morning Session: 10:00 a.m. – 11:30 a.m.

##### Christopher Beauchamp

*Battery Constrained Covering Salesman Problem in Robotic Sensor Networks*

Research Mentor: Bin Tang (Computer Science)

##### Kayce Herrera

*Studying the Electrical Properties of a P-N Junction using Physics-Informed Neural Network (PINN)*

Research Mentor: To Dang (Physics)

##### Rodolfo CerdaMarquez and Chaitanya Kakarla

*CSUDH Green Radius by AI integration*

Research Mentor: Malcolm McCullough (Computer Science)

##### Christopher Dedman-Rollet

*Tool for the automatic generation of the interaction beads of a coarse-grained model of a macromolecule*

Research Mentor: Apostol Gramada (Physics)

##### Kristopher Ryan Manalang

*Comparative Analysis of Traffic Flow and Climate Impact Among Autonomous, Non-Autonomous, and Mixed Vehicle Fleets on Southern California Highways*

Research Mentor: Horace Crogman (Physics)

## #5 Health, Nutrition, and Behavioral Sciences

### Undergraduate Oral, March 4<sup>th</sup> — LSU 324

#### Tuesday Afternoon Session: 2:30 – 4:00 p.m.

##### 2:30-2:40 p.m. Taylor Galuppi

*Nurse, or Secondary Patient? Comparison of Career, and Familial, and Collective Caretakers*  
Research Mentor: William Lucas (Anthropology)

##### 2:45-2:55 p.m. Michelle Gonzalez, Yailin Munoz, Sebastian Molina, and Marysol Diaz

*Iteration of the UNILaw app understanding litigants in the SoCal region*  
Research Mentor: Di Xu (Art & Design)

##### 3:00-3:10 p.m. Reese Santonil

*Understanding Group Differences of Genes through Diseases*  
Research Mentor: William Lucas (Anthropology)

##### 3:15-3:25 p.m. Chauncey Williams, Jalynn Wade, and Shawn Smith

*What is the role of close friends in PrEP-Talk, a PrEP uptake intervention with young Black gay and bisexual men to reduce HIV transmissions?*  
Research Mentor: Matt Mutchler (Health Science)

##### 3:30-3:40 p.m. Mirna Vizcaino and Perla Gonzales

*College life: Meditation to cope with Anxiety and Stress*  
Research Mentor: Kim Proctor (Psychology)

## #6 Behavioral and Social Sciences Graduate Poster

March 4<sup>th</sup> — LSU Ballrooms A & B

Tuesday Afternoon Session: 2:30 – 4:00 p.m.

### Elieel Dominguez

*Examining the Relationship Between Life Experience Variables and Cognitive Performance in a College Population*

Research Mentors: Tara Victor, David Weissman, and Carl Sneed (Psychology)

### Khoi Pham

*The Role of AI in Student Employment*

Research Mentor: Billy Wagner-Huang (Sociology)

### Annalise Bui

*The Role of Intergenerational Trauma in Substance Use Among Cambodian Refugee Communities*

Research Mentor: Pari Sabado (Health Sciences)

### Iliana Blanca Sansur

*Sewer Lines and Manholes: A CSUDH Perspective*

Research Mentor: Parveen Chhetri (Environmental Science)

### Manisha Talukder

*Empowering Parents & Educators: Mindfulness-Based Intervention to Manage Aggression in Individuals with ASD*

Research Mentor: Kai Greene (Special Education)

### Leticia Moreno

*Social-Emotional Development Practices in Inclusive Education for students with Extensive Support Needs*

Research Mentor: Kai Greene (Special Education)

### Janna Emery

*The epigenetic modifier Decitabine overcomes bone marrow stroma-mediated drug resistance in blood cancer cells*

Research Mentor: Jahan Abdi (Clinical Science)

## #7 Health, Nutrition, and Clinical Sciences Undergrad Poster

March 4<sup>th</sup> — LSU Ballrooms A & B

Tuesday Afternoon Session: 2:30 – 4:00 p.m.

### Arianna Peredia

*Stress Reactivity During Pregnancy: Socioeconomic Status and Age-Related Differences in Response to a Real-World Stress Test*

Research Mentor: Irene Tung (Psychology)

### Mharlou Peralta and Francis Rolan

*Bone marrow mesenchymal stromal cells enhance proliferation of multiple myeloma cells*

Research Mentor: Jahan Abdi (Clinical Science)

### Eryn Shackelford, Julia-Jane Yonga, and Ariana Medina

*Prevalence of Diabetes Risk Factors and Health Perceptions in College Students*

Research Mentors: Silvia Santos and Maria Hurtado-Ortiz (Psychology)

### Cindy Martinez

*Development of an LC-MS/MS Method for the Quantification of Ketone Bodies*

Research Mentor: Sonal Singhal (Biology)

**#8 Business, Economics, and Public Administration**  
**Undergraduate Oral, March 4<sup>th</sup> — LSU Ballroom C**  
**Tuesday Afternoon Session: 2:30 – 4:00 p.m.**

- 2:30-2:40 p.m. **Ekaterina Singh**  
*Factors which contribute to the attitude toward euthanasia*  
Research Mentor: Elena Kulikov (Public Administration)
- 2:45-2:55 p.m. **Geovanny Martinez and Corvalis Cohen**  
*Enhancing Homeland Security Career Pathways and Preparedness with A Custom-Built AI Chatbot*  
Research Mentors: Fynnwin Prager and Qiyuan Jin (Public Administration)
- 3:00-3:10 p.m. **Kaden Engel and Brandon Valle**  
*The Connection between Artificial Intelligence and Consumerism: A Literature Review*  
Research Mentor: Nancy Deng (Information Systems)
- 3:15-3:25 p.m. **Dwanjai Oprien**  
*Supply Chain Resilience Through Transportation Modal Flexibility*  
Research Mentor: Jian-yu Ke (Information Systems)
- 3:30-3:40 p.m. **Maxwell Towne (ZOOM)**  
*Streamlining Supply Chain Operations for Small Teams: A Research Project on Digital Transformation*  
Research Mentor: Myron Sheu (Information Systems)

**#9 Symposium: Pre-Migration Trauma and Nativity Status as Predictors of Resilience in Hispanic/Latino Adults at Midlife Residing in the Rural Northeast**  
**March 4<sup>th</sup> – LSU 326**  
**Tuesday Late Afternoon Session: 4:00 – 5:15 p.m.**

Research Mentor: Erica Diminich (Psychology)

**Tamryn Betts**, *Examining associations between coping flexibility and executive functioning in foreign-born Hispanic/Latino adults*

**Celeste Moreno**, *Age of Migration and associations with mental health in a diverse cohort of Hispanic/Latino adults*

**Jacqueline Duarte**, *Premigration trauma, acculturation, and post-traumatic stress disorder (PTSD) in foreign born Hispanic/Latino adults*

**Melanie Ramos**, *Age of migration and years lived in the U.S are associated with poor cardiometabolic health in undocumented foreign-born Hispanic/Latino adults*

**#10 Behavioral and Social Sciences, Education and Health  
Developmental Posters, March 4<sup>th</sup> — LSU Ballroom A & B  
Tuesday Late Afternoon Session: 4:00 – 5:15 p.m.**

**Jade Cryer**

*Perceptions of Marriage from Gen Z Black Women and Preferred Qualities in a Long-Term Partner or Spouse*

Research Mentor: La-Quesha Robinson (Marital and Family Therapy)

**Marley Garcia**

*All Students Deserve to be Engaged: The Effect of Teacher Attitudes, Practices, and Confidence on ELL Engagement*

Research Mentor: Sumino Otsuji (Teacher Education)

**Jose Dominguez, Samantha Amarillas, and Daniel Ixtlan**

*Connecting to Undergrads: Studying the Office of Undergraduate Research Outreach & Recruitment Methods*

Research Mentor: Ken Seligson (Anthropology)

**#11 Behavioral and Social Sciences Graduate Oral  
March 4<sup>th</sup> — LSU Ballroom C  
Tuesday Evening Session: 5:30 – 7:15 p.m.**

**5:30-5:40 p.m. Sheena Adolphus**

*Enhancing Recovery, Employment, & Reducing Recidivism in Justice - Involved Individuals*

Research Mentor: Kevin Montes (Psychology)

**5:45-5:55 p.m. Ana Arvizu**

*Post-Roe v. Wade: The Role of Sex in The Abortion Debate*

Research Mentor: La Tanya Skiffer (Sociology)

**6:00-6:10 p.m. Zoe Manoguerra, Linda Iniguez-Cavazos, Dillion Huynh, and Juan Gonzalez**

*Parental Occupational Balance*

Research Mentor: Sheryl Ryan (Occupational Therapy)

**6:15-6:25 p.m. Jesus Alcantar Alvarado**

*Rent Control in California: A disconnect between perceived survey support & election results*

Research Mentor: Elena Kulikov (Public Administration)

**6:30-6:40 p.m. Alyanna Kayla Paulino, Giselle Santos, and Tracy Nguyen**

*Predictors of Health-Related Quality of Life Amongst Filipino-American Caregivers of Older Adults*

Research Mentor: Yan-Hua Huang (Occupational Therapy)

**6:45-6:55 p.m. Nasim Karimi**

*Parental Acceptance as a Resilience-Promoting Factor for Mental Health Outcomes in BIPOC LGBTQ+ Youth Experiencing Discrimination*

Research Mentor: Irene Tung (Psychology)

**7:00-7:10 p.m. Giselle Corral**

*Breaking Barriers: A Literature Review of Workplace Policies and Gender Equity in Advancing Women into Leadership Roles in Homeland Security*

Research Mentor: Zheng Yang (Public Administration)

## #12 Physical and Mathematical Sciences

### Undergraduate Oral, March 4<sup>th</sup> – LSU 324

#### Tuesday Evening Session: 5:30 – 7:00 p.m.

- 5:30-5:40 p.m. **Rashad Hall**  
*Electromagnetic Dynamics and Characterization of Cancer Cell-Magnetic Bead Interactions*  
Research Mentors: Horace Crogman and To Dang (Physics)
- 5:45-5:55 p.m. **Gavin Acosta, Athena Tran, Anthony Scott, and Andy Flores**  
*The Proton-Proton Elastic Scattering Process*  
Research Mentor: John Price (Physics)
- 6:00-6:10 p.m. **Emmanuel Zamitiz**  
*Investigation into the Secondary Metabolites from *Macrocystis pyrifera**  
Research Mentors: Erin McCauley and Amine Laradji (Chemistry and Biochemistry)
- 6:15-6:25 p.m. **Athena Tran, Gavin Acosta, Andy Flores, and Anthony Scott**  
*The  $\Sigma$ - $p \rightarrow \Sigma$ - $p$  and  $\Sigma$ + $p \rightarrow \Sigma$ + $p$  Elastic Scattering Processes*  
Research Mentor: John Price (Physics)
- 6:30-6:40 **Vanessa Zamora and Jose Fabian Rodriguez**  
*Carbon-Based Material from Waste Biomass and Its Usage in the Fabrication of Electric Energy Storage Components*  
Research Mentor: Lamar Glover (Physics)

## #13 Symposium: Female Agency in Mexican Literature

### March 4<sup>th</sup> – LSU 326

#### Tuesday Evening Session: 5:30 – 6:30 p.m.

Research Mentor: Melissa González-Contreras (Modern Languages)

**Lisbed Ochoa**, *La opresión y la desigualdad de la mujer en la narrativa de Castellanos y Poniatowska*

**Emilyn Santana Torres**, *Critica a los estereotipos de la mujer mexicana en 'El eterno femenino' de Rosario Castellanos*

**Jazmin Estrella**, *"Mujer casta y sumisa en la obra de Rosario Castellanos y Elena Poniatowska"*

## #14 Behavioral and Social Sciences Graduate Poster II

March 4<sup>th</sup> — LSU Ballroom A & B

Tuesday Evening Session: 5:30 – 7:00 p.m.

### Kayla Marroquin

*Brain structural alterations as a mechanism linking childhood violence exposure and adolescent substance use*

Research Mentor: David Weissman (Psychology)

### Akashi Suon

*Investigating the Link Between Heart Rate Variability, Interoceptive Accuracy, and Resilience to Violence Exposure in Adolescence*

Research Mentor: David Weissman (Psychology)

### Jeffrey Herschler, Logan Zaks, Justin Beverly, and Kyra Westbrooks

*Evaluating the Impact of “Dyvert Vue” Lids on Waste Diversion at Cal State University of Dominguez Hills*

Research Mentor: Parveen Chhetri (Environmental Science)

### Christiana Tunnicliffe, Shendey Mae Casas, and Royal Gustave

*Neurodiversity in College Students: The Relationship Between Perceived Resource Accessibility and Mental Health Outcomes*

Research Mentor: Yan Hua Huang (Occupational Therapy)

### Marilyn Felix

*The Impact of Friend Support in Enhancing Maternal-Fetal Attachment during Pregnancy*

Research Mentor: Irene Tung (Psychology)

### Iliana Blanca Sansur, Stephen Miller, Dylan Tramel, and Tatiana Moreno

*Storm Drain Trash Accumulation Assessment: A Litter Overview at California State University, Dominguez Hills*

Research Mentor: Parveen Chhetri (Environmental Science)

### Anita Kapila-Ramirez, Sheena Adolphus, Amelia M. Romero, Edwin A. Hernandez, and Devin L. St. Pierre

*Does the Role of Caregiver Impact Alcohol Related Outcomes Among Caregivers of ADRD Patients?: A Scoping Review*

Research Mentor: Kevin Montes (Psychology)

### Erin Kim and Ysabelle Andrea Chivi

*Relationships between Quality of Life, Stress, and Resilience among Asian Americans and Non-Asian Americans Growing Up with a Sibling with a Disability*

Research Mentor: Yan-Hua Huang (Occupational Therapy)

### Peter Martinez

*The Effect of Language and Deprivation on Emotional Awareness in College Students*

Research Mentor: David Weissman (Psychology)

## #15 Behavioral and Social Sciences I

### Undergraduate Poster, March 4<sup>th</sup> — LSU Ballroom A & B

Tuesday Evening Session: 5:30 – 7:00 p.m.

#### Ingrid Panameño

*Exploring Fentanyl Abuse and Spinal Cord Injuries: Implications for Intervention and Healthcare Practices in Urban Communities*

Research Mentor: William Lucas (Anthropology)

#### Rodrigo Arenas Loma

*Autism representation in children's picture books*

Research Mentor: Christina Toolan (Child Development)

#### Veronica Ceja

*The Association Between Academic Success and Structural Stigma Among Latinx Adolescents*

Research Mentor: David Weissman (Psychology)

#### Amelia Romero, Anita Kapila-Ramirez, Sheena Adolphus, Devin L. St. Pierre, and Edwin A. Hernandez

*Prevalence and Correlates of Binge Drinking Among College Students: A Scoping Review*

Research Mentor: Kevin Montes (Psychology)

#### Devin St. Pierre, Anita Kapila-Ramirez, Edwin A.

**Hernandez, Amelia M. Romero, and Sheena Adolphus**  
*What is the Role of Emotion Regulation in Mindfulness-Based Relapse Prevention for Alcohol Use? A Scoping Review*

Research Mentor: Kevin Montes (Psychology)

#### Nayomi Camarena and Peter Martinez

*Evaluating A Novel Cardiac Interoception Task and its Association with Emotional Awareness and Mental Health in College Students*

Research Mentor: David Weissman (Psychology)

#### Precious Jones

*The Positive Effects of Social Media*

Research Mentor: Ashley Membere (Psychology)

## #16 Undergraduate Roundtable, March 4<sup>th</sup> - LSU 322

Tuesday Evening Session: 5:30 – 7:00 p.m.

#### Diego Somera

*How the fast food industry is connected with prison labor*

Research Mentors: Diego Avalos (Criminal Justice Administration) and Alfredo Carlos (Labor Studies)

#### Jalynn Wade

*Temporary Housing Solutions Study*

Research Mentor: Matt Mutchler (Health Science)

#### Sherri Harrison

*Juveniles' Incarceration Rates and Economic Status*

Research Mentor: Monique Turner (Psychology)

#### Megan Lewis

*How will the expanding ageing population be met by society?*

Research Mentor: Monique Turner (Psychology)

#### Louis Raprager

*Obstacles Encountered by Veterans in Recognizing Themselves; Challenges Linked to Cultural Beliefs and Stigma Surrounding Identity*

Research Mentor: Thomas Norman (Management and Marketing)

#### Laraine Perez

*Chicanas in Academia: Challenges and Support Systems*

Research Mentor: Roderick Hernandez (English)

# WEDNESDAY, MARCH 5<sup>th</sup>

## #17 Behavioral and Social Sciences Graduate Oral II

### March 5<sup>th</sup> – LSU Ballroom C

#### Wednesday Morning Session: 10:00 – 11:30 a.m.

- 10:00-10:10 a.m. Elizabeth Hayase, Jerry Lai, and Katherine Nguyen**  
*Embrace, Don't Erase: A Neurodivergent-Affirming Path for Autistic Care*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 10:15-10:20 a.m. Bianca Zaragoza, Britney Tang, and Alaina Thomas**  
*Experiences of Quarter-Life Crisis During Young Adult Transitions*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 10:30-10:40 a.m. Gabriel Ocampo and Tamaki Trexler**  
*The Essence of Naginata: A Case Study of Practitioners in Southern California*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 10:45-10:55 a.m. Vivian Du, Larissa Bolanos, Cecilia Ceballos, and Hannah Garcia**  
*The Narrative of Pet Owners and Their Perception of Chronic Pain*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 11:00-11:10 a.m. Madeline Neal, Jasmine Ho, Sidney Hsu, and Nadine Herrera**  
*Adolescents' Experiences as Language Brokers*  
Research Mentor: Sheryl Ryan (Occupational Therapy)

## #18 Behavioral and Social Sciences Undergraduate Poster II

### March 5<sup>th</sup> - LSU Ballroom A & B

#### Wednesday Morning Session: 10:00 – 11:30 a.m.

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| <p><b>Diana Moreno Trinidad</b><br/><i>Making the math add up: Can new teaching methods transform math lessons into enjoyable learning experiences?</i><br/>Research Mentor: Jeffrey K. Bye (Psychology)</p> | <p><b>Stephanie Pineda Olvera and Jacqueline Moreno</b><br/><i>Am I a Math Person? Facilitating Abstraction with Concreteness Fading</i><br/>Research Mentor: Jeffrey K. Bye (Psychology)</p>                |
| <p><b>Nishma Ibañez</b><br/><i>Diagnostic Disclosure of Autism to Autistic Individuals: A Systematic Literature Review</i><br/>Research Mentor: Christina Toolan (Child Development)</p>                     | <p><b>Julie Ball</b><br/><i>Childhood Violence Exposure and Adolescents' Subjective Emotional Reactivity</i><br/>Research Mentor: David Weissman (Psychology)</p>  |
| <p><b>Leslie Rivas-Melara</b><br/><i>Impact of School Discipline Policies and Practices on Adolescent Development in the ABCD Study</i><br/>Research Mentor: David Weissman (Psychology)</p>                 | <p><b>Jose Quintero</b><br/><i>Spatial Analysis of Xanab Chak: Insights into Social Stratification and Urban Planning in the Northern Maya Lowlands</i><br/>Research Mentor: Ken Seligson (Anthropology)</p> |
| <p><b>Giovanny Segura, Leslie Hernandez, and Jordy Portillo</b><br/><i>Digital Equity: Internet Access and Technology</i><br/>Research Mentor: Sarah Cote (Anthropology)</p>                                 | <p><b>Maha El Ouaer</b><br/><i>Motivating algebra: Building on Concreteness Fading Approach</i><br/>Research Mentor: Jeffrey K. Bye (Psychology)</p>   |



## #19 Physical and Natural Sciences, Computer Science and Engineering, Graduate Oral, March 5<sup>th</sup> - LSU 324

### Wednesday Morning Session: 10:00 – 11:30 a.m.

10:00-10:10 a.m. **Priya Silwal**

*Investigating the Potential of Telecommuting to Reduce Vehicle Miles Traveled and Greenhouse Gas Emissions in California*

Research Mentor: Parveen Chhetri (Earth Science)

10:15-10:25 a.m. **Luis Lopez**

*Identifying Novel Fungal Metabolites with Antibiotic Activity*

Research Mentor: Erin McCauley (Chemistry and Biochemistry)

10:30-10:40 a.m. **Jerik Pineda**

*Citrullinase Effects on the Oligomerization of Recombinant Human CXCL8 and its Implications for Heparan Sulfate-CXCL8 Complex Formation*

Research Mentor: Kari Pederson (Chemistry and Biochemistry)

10:45-10:55 a.m. **Danny Gammage**

*Harnessing the Dominguez Channel for a Sustainable Future: Addressing Hydrogen Sulfide Emissions and Enhancing Biodiversity in Southern California*

Research Mentor: Parveen Chhetri (Earth Science)

11:00-11:10 a.m. **Muhammad Zaid Kamil**

*Integration of Real-time Data to AR/VR Desalination and CSUDH Campus Map*

Research Mentors: Horace Crogman (Physics) and Akshan Jalooli (Computer Science)

11:15-11:25 a.m. **Daniel Isokpunwu (ZOOM)**

*Enhancing Hurricane Prediction for Homeland Security Applications*

Research Mentor: Antonia Boadi (Physics, Systems Engineering)

## #20 Health, Nutrition, and Clinical Sciences Graduate Oral II March 5 - LSU Ballroom C

### Wednesday Afternoon Session: 1:00 – 2:30 p.m.

1:00-1:10 p.m. **Alexandra Ogar, Maureen McGarry, Ashley Alunan, and Kayla Priebe**

*Patient vs Clinician Education Priorities Throughout Orthotic Intervention for Idiopathic Scoliosis: A Survey Investigation*

Research Mentors: Mojtaba Kamyab and Ava Hebrick (Orthotics and Prosthetics)

1:15-1:25 p.m. **Kristine Yohanna**

*Bi-directional crosstalk between adipocytes and African American mammary cancer stem cells: role of hypoxia-induced metabolic reprogramming*

Research Mentor: Shehla Pervin (Biology)

1:30-1:40 p.m. **Hana Abdullah, Pooja Ekbote, and Candice Carrizales**

*Campus Protest as an Occupation: Form, Function, and Meaning*

Research Mentor: Sheryl Ryan (Occupational Therapy)

1:45-1:55 p.m. **Alyssa Choe, Emily Chang, Stephanie Fung, and Nina Doan**

*Experiences of Level II Fieldwork Students with Regard to the Use of Occupation-Based Interventions*

Research Mentor: Sheryl Ryan (Occupational Therapy)

2:00-2:10 p.m. **Lupita Sotelo, Brianna Santoyo, Amy Rocha, and Monica Rosales**

*Experiences of Rehabilitation Following Cancer Treatment: A Phenomenological Study*

Research Mentor: Sheryl Ryan (Occupational Therapy)

## #21 Humanities and Letters Undergraduate Oral II

March 5<sup>th</sup> – LSU 326

Wednesday Afternoon Session: 1:00 – 2:30 p.m.

- 1:00 – 1:10 p.m. Michael Gonzalez**  
*Two Sides of the Coin: Racism, Misdiagnosis, and Psychiatric Practices in U.S. Insane Asylums for Native Americans*  
Research Mentor: Daniel Santana (History)
- 1:15 – 1:25 p.m. Mya Gibson**  
*Surviving the Heteropatriarchy: Mary Wollstonecraft's Maria, or The Wrongs of Woman*  
Research Mentor: Helen Oesterheld (English)
- 1:30 – 1:40 p.m. Alyana Denice Osmeña**  
*The Feminine and Divine*  
Research Mentor: Helen Oesterheld (English)
- 1:45 – 1:55 p.m. Maria Barrios**  
*Threading a Better Life: How Supporting Weaving in Central American and Mexican Indigenous Communities Increases Quality of Life and Combats Discrimination*  
Research Mentor: Kirstin Ellsworth (Art & Design)
- 2:00 – 2:10 p.m. Guadalupe Villegas**  
*Suffering and the Supernatural in a Patriarchal Society: Reflections on Like Water for Chocolate and So Far from God*  
Research Mentor: Roderick Hernandez (English)
- 2:15 – 2:25 p.m. Diana Chávez**  
*Usage of Psychoactive Plants in Sacred South American Environments*  
Research Mentor: Ken Seligson (Anthropology)

## #22 Health, Nutrition, and Clinical Science Graduate Poster

March 5<sup>th</sup> - LSU Ballroom A & B

Wednesday Afternoon Session: 1:00 – 2:30 p.m.

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| <p><b>Anna Navarro, Dominique Allen, Douglas Fernandez, and Sarah Fissel</b><br/><i>Assessment of Prostheses Priorities in Individuals with Transtibial Amputations</i><br/>Research Mentor: Mojtaba Kamyab (Orthotics and Prosthetics)</p>   | <p><b>Lillian Richards, Adam Lawall, Juliann Johnson, and Andrek Dumond</b><br/><i>Comparing a Microprocessor Knee to a Mechanical Knee</i><br/>Research Mentors: Mojtaba Kamyab and Mark Cromer (Orthotics and Prosthetics)</p> |
| <p><b>Victoria Lancey, Daniel Hufnagel, Nick Murdach, and Gloria Rangel</b><br/><i>Assessing the Effects of Induced Leg Length Discrepancy in Unilateral Transtibial Amputees Between the Prosthetic and Intact Limb Through the Analysis of Gait Symmetry and Spatiotemporal Parameters</i><br/>Research Mentors: Mojtaba Kamyab and Mark Muller (Orthotics and Prosthetics)</p> | <p><b>Tshlene Bentley, Esperanza Rojas, and Robert Hobbs-Villegas</b><br/><i>Reliability and Validity of Kyphosis Measuring Tools</i><br/>Research Mentor: Mojtaba Kamyab (Orthotics and Prosthetics)</p>                        |
| <p><b>Jocelyne Mena</b><br/><i>The Role of SspA in the Adaptation of Escherichia coli</i><br/>Research Mentor: Karin Kram (Biology)</p>   | <p><b>Candy Saucedo</b><br/><i>Characterizing Bacterial Adaptations by Analyzing Gene Expression in Long-Term Cultures</i><br/>Research Mentor: Karin Kram (Biology)</p>   |

## #23 Biological and Agricultural Sciences

### Undergraduate Poster, March 5<sup>th</sup> - LSU Ballroom A & B

Wednesday Afternoon Session: 1:00 – 2:30 p.m.

#### Kyrsten Tyler

*Evaluating Culture and Extraction Methods to Dereplicate Fungal Strains Using the MALDI-TOF IDBac Platform*

Research Mentor: Erin McCauley (Chemistry and Biochemistry)

#### Karis Meade, Mayra Hernandez, and Olivia Parra

*Invaders Resistance to Diverse Plant and Soil Communities*

Research Mentors: Sonal Singhal (Biology) and Justin Valliere (UC Davis)

#### Melissa Lozano

*The Role of ycgX, yodC, ybgC, tdcA and wzzB in Survival of Escherichia coli in Long-Term Stationary Phase*

Research Mentor: Karin Kram (Biology)

#### Leslye Villalobos

*Functional Study of MYC Acetylation in Cell Metabolism*

Research Mentors: Karin Kram (Biology), and David Ann and Xiaoli Ping (City of Hope)

#### Lucy Soria

*Understanding Mechanisms By Which Adipocytes Interact With Triple Negative Breast Cancer*

Research Mentor: Shehla Pervin (Biology)

#### Angel Calles

*The effect of systemic nicotine on brain inflammation and aging*

Research Mentor: Sonal Singhal (Biology)

#### Catherine Giles

*Development of Novel Mitochondria-Targeted Drug (mitoGE2) as Anti-Cancer Treatment for Breast and Pancreatic Cancers*

Research Mentors: Sonal Singhal (Biology), and James L. Figarola and Jyotsana Singhal (City of Hope)

#### Fiyinfoluwa Ojo

*Culturing of Kelp Associated Bacteria Capable of Metabolizing Alginate*

Research Mentor: Erin McCauley (Chemistry and Biochemistry)

#### April Princing

*Identifying the Role yigZ, ymgF, ynfN, and ygbE Play in Long Term Stationary Phase in Escherichia coli*

Research Mentor: Karin Kram (Biology)

#### Adrian Ortiz, Bradley Heath, Kenia Vidal, Destiny Anyanwu, Rochelle Johnson, and Stephanie Rauda

*HIV-1 p-17 Interactions with Heparan Sulfate*

Research Mentor: Kari Pederson

#### Vincent Espinoza

*Study of Secondary Metabolites from Kelp-Derived Fungi*

Research Mentor: Erin McCauley (Biology)

## #24 Education Graduate Student Developmental Oral I

March 5<sup>th</sup> - LSU 324

Wednesday Late Afternoon Session: 4:00 – 5:00 p.m.

- 4:00-4:10 p.m. **Daniel Simonds**  
*CTE Education is Postsecondary Education: Equitably Supporting Non-4-year college-bound 12th graders as School Counselors*  
Research Mentor: Margarita Landeros (School and College Counseling)
- 4:15-4:25 p.m. **Gabriela Moya**  
*Addressing Barriers to Graduation: Understanding and Supporting High School Students in Credit Recovery Courses*  
Research Mentor: Margarita Landeros (School and College Counseling)
- 4:30-4:40 p.m. **Jessica Davila**  
*Unlocking Positive Potential: Bridging the Gap to Address Behavioral Challenges and Strengthen School Climate*  
Research Mentor: Margarita Landeros (School and College Counseling)
- 4:45-4:55 p.m. **Maria Torres Jauregui**  
*Hablando Juntos: Fostering Inclusive Communication for Student Success*  
Research Mentor: Margarita Landeros (School and College Counseling)

## #25 Health, Nutrition, and Clinical Science Graduate Oral III

March 5<sup>th</sup> - LSU Ballroom C

Wednesday Evening Session: 5:30 – 6:30 p.m.

- 5:30-5:40 p.m. **Timothy Chan, Christopher Carroll, Flora Chen, and Kenia Carrillo**  
*Exploring Male Occupational Therapists' Perceptions of Social Connection and Belonging*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 5:45-5:55 p.m. **Elizabeth Kearney, Samantha Nugroho, Stephanie Flores, Hanna Lagman**  
*Experiences of Sexual Health, Sexuality, and Intimacy Among Individuals with Acquired Physical Disability*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 6:00-6:10 p.m. **Ariana Lopez**  
*Applying XTT Assay to Investigate Killing Activity of Bortezomib Against Blood, Lung, and Bone Cancer Cell Lines*  
Research Mentors: Jahan Abdi (Clinical Science) and Horace Crogman (Physics)
- 6:15-6:25 p.m. **Kimberly Rivera**  
*Investigating the combined therapeutic effects of the drugs bortezomib and decitabine on multiple myeloma blood cancer cells using a GFP fluorescence-based assay*  
Research Mentor: Jahan Abdi (Clinical Science)

## **#26 Undergraduate Symposium: Latin American Literature Responds to Oppression**

**March 5<sup>th</sup> - LSU 326**

**Wednesday Evening Session: 5:30 – 6:30 p.m.**

Research Mentor: Melissa González-Contreras (Modern Languages)

*Erick Gonzalez, La búsqueda de identidad en Isabel desterrada en Isabel*

*Spencer De La Torre, La destrucción del espíritu humano en la obra de Griselda Gambaro y George Orwell*

*Nestor Valencia, El poder autoritario, un sistema corrupto que deteriora la individualidad en Gambaro y Valenzuela*

*Brenda Breckshot, Paralelismo y represión sistemática en El retablo de Yumbel*

## **#27 Education and Public Administration**

**Graduate Student Developmental Oral II, March 5<sup>th</sup> - LSU 324**

**Wednesday Evening Session: 5:30 – 7:00 p.m.**

**5:30 – 5:40 p.m. Michelle Ambriz Reyes**

*Parent/Guardian Barriers Decreasing Student Attendance*

Research Mentor: Margarita Landeros (School and College Counseling)

**5:45 – 5:55 p.m. Johanna Breeland**

*Identifying Barriers to Success: A Holistic Approach to Understanding Academic Struggles of Seventh Grade Students*

Research Mentor: Margarita Landeros (School and College Counseling)

**6:00 – 6:10 p.m. Roldan Galvez**

*Successful Protective Factors for Minimizing Recidivism Rates in Adult Offenders*

Research Mentor: Rui Sun (Public Administration)

**6:15 – 6:25 p.m. Sylas Harvey**

*Enhancing Inclusion for Students with Autism Spectrum Disorder in Early Education: A Collaborative Approach to Professional Development*

Research Mentor: Kai Greene (Special Education)

## #28 Physical and Mathematical Sciences

### Undergraduate Poster, March 5<sup>th</sup> - LSU Ballroom A & B

Wednesday Evening Session: 5:30 – 7:00 p.m.

**Mikaela Mari Fria, Emmanuel Zamitiz, and Mariella Mendoza**

*Engineering an In-Situ Gelling Vitreous Substitute with Antiproliferative Properties*

Research Mentor: Amine Laradji (Chemistry and Biochemistry)

**Alicia Bennett-Smith**

*Investigation of MALDI for analysis of polymer additives*

Research Mentor: Barbara Belmont (Chemistry and Biochemistry)

**Jazmyne Vargas, Kyara Wise, Cristin Brown, and Ricardo Picazo**

*Unlocking Voter Dynamics: Exploring Piercing Numbers in Discrete Societies*

Research Mentors: Carolyn Yarnall, Sharon Lanaghan, and Jessalyn Bolkema (Mathematics)

**Kaylei Del Castillo, Gavin Acosta, Juan De Pablo, Christopher Domingo, Shaan Govind, and Oscar Rodriguez**

*The Fabrication and Performance of Biochar-bases EDLCs in Audio Circuits Serving as Demonstration Devices*

Research Mentor: Lamar Glover (Physics)

**Benjamin Luna, Alejandro Cavazos, Junior Bail, and Anthony Huizar**

*Tree Canopies and The Effectiveness of Reducing Urban Heat Islands on Campus*

Research Mentor: Parveen Chhetri (Earth Science and Geography)

**Justin Beverly**

*The Environmental Impacts of the Salton Sea, California*

Research Mentor: Parveen Chhetri (Earth Science and Geography)

**Edgar Santos and LaNeisha Hodo**

*Los Angeles County Homelessness, Displacement and Waterways*

Research Mentor: Parveen Chhetri (Earth Science and Geography)

**Tristan Partida**

*Identifying Novel Chemical Compounds from *Macrocystis pyrifera* derived Bacteria using Tandem Mass Spectrometry*

Research Mentor: Erin McCauley (Chemistry and Biochemistry)

**Diego Rodriguez**

*Secondary Metabolites from Marine Sponges that Exhibit Cytotoxic Activity Toward Solid Tumor Cell Lines*

Research Mentors: Erin McCauley (Chemistry and Biochemistry) and Charlene McCord (Biology)

## #29 Behavioral & Social Sciences, and Education

### Undergraduate Poster, March 5<sup>th</sup> - LSU Ballroom A & B

Wednesday Evening Session: 5:30 – 7:00 p.m.

**Eileen Valencia**

*Sociopolitical Evolution of the Ancient Maya Site of Xanab Chak as seen through Ballcourt Construction Phases*

Research Mentor: Ken Seligson (Anthropology)

**Diana Chávez and Gabriela Rodriguez**

*Decolonizing the Plate: Reviving Traditional Foods for Health Equity*

Research Mentor: William Lucas (Anthropology)

**Madison Bertran**

*Parental Emotional Support as a Predictor of Emotion Expertise and Psychopathology in Adulthood*

Research Mentor: David Weissman (Psychology)

**Tristen Landeros**

*Algebra Comprehension: Assessing Errors*

Research Mentor: Jeffrey K. Bye (Psychology)

**Kate Bustamante, Elizabeth Castillo, Jordan Stroven, Angelo Valles, Isabella Rivas, Stephanie Montes and Lizbeth Sanchez**

*Mental Health Perspectives of the Latinx Community*  
Research Mentor: Steven Frieze (Psychology)

**Edwin Hernandez, Devin L St. Pierre, Anita Kapila-Ramirez, Sheena Adolphus, and Amelia M Romero**

*Differing Environments Affecting Impulsivity and Substance Abuse: A Scoping Review*

Research Mentor: Kevin Montes (Psychology)

**Evelyn Pasquel**

*The association between childhood violence exposure and adolescent pubertal development*

Research Mentor: David Weissman (Psychology)

**Yamileth Gonzalez**

*The impact of colonization on Mesoamerican views of LGBTQ communities*

Research Mentor: Miguel Gutierrez (Chicana & Chicano Studies)

## #30 Graduate Student Roundtable

### March 5<sup>th</sup> - LSU 322

Wednesday Evening Session: 5:30 – 7:00 p.m.

**Nadine Brandy**

*Water Inequality for Marginalized groups*

Research Mentor: Rui Sun (Public Administration)

**Lesly Perez**

*Understanding Parents' Participation and Guidance in Their High School Student's Post-Graduation Decisions*

Research Mentor: Adrieen Mancillas (School and College Counseling)

**Amaris Toruno**

*Collaborative In a Universal Transitional Kindergarten Collaborative Classroom*

Research Mentor: Kai Greene (Special Education)

**Janet Garcia**

*Bridging Roles: Understanding the Motivational Journey of School Counselors into Administration*

Research Mentor: Margarita Landeros (School and College Counseling)

**Anthony Valentin**

*Personal Identities within Language Learning Environments*

Research Mentors: Malik Stevenson and Iara Mantenuto (English)

# THURSDAY, MARCH 6<sup>th</sup>

## #31 Education Graduate Oral

### March 6<sup>th</sup> - LSU Ballroom C

#### Thursday Morning Session: 9:00 – 11:00 a.m.

- 9:00-9:10 a.m. **Salma Elhabashy**  
*Artificial Intelligence in Language Acquisition: Opportunities, Challenges, and Implications*  
Research Mentor: Malik Stevenson (English)
- 9:15-9:25 a.m. **Linda Melendez**  
*The Question Particle in Yes/No questions in San Sebastián Del Monte Mixtec*  
Research Mentor: Iara Mantenido (English)
- 9:30 – 9:40 a.m. **Alexa Martinez, Hallie Kaichi, and Naomi Kruzic**  
*The Process of Learning and Implementing Cultural Sensitivity in Occupational Therapy*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 9:45-9:55 a.m. **Dominique Soriano, Crystal Ponce, Dominique Soriano, and Katelyn Ponce**  
*Experiences & Perceptions of LGBTQ+ Occupational Therapy Students: A Phenomenological Study of Learning, Inclusivity, and Future Practice*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 10:00-10:10 a.m. **Craig Singleton**  
*The Ethical Challenges of Artificial Intelligence in Education*  
Research Mentor: Esther Castillo (Sociology)
- 10:15-10:25 a.m. **Breck Burwell, Maria Astudillo, Jessica Altobelli, and Jillian Caro**  
*Coping Strategies Among First-Generation College Students and the Perceived Impact on Academic Performance*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 10:30-10:40 a.m. **Nikya Bryant**  
*The CBAPP Belong Series*  
Research Mentors: Zheng Yang (Public Administration) and Sarah Britto (Criminal Justice Administration)



## #32 Biological and Agricultural Sciences

### Undergraduate Poster, March 6<sup>th</sup> - LSU Ballroom A & B

Thursday Morning Session: 9:30 – 11:00 a.m.

**Emmanuel Zamitiz and Patrick Brennan**

*MRTX1133 as a Novel Therapy for Pancreatic Cancer Adenocarcinoma as a KRAS G12D Inhibitor*  
Research Mentors: Erin McCauley and Amine Laradji (Chemistry and Biochemistry), Caus Radu (UCLA)

**Jerry Salinas**

*Silencing of CARF Impairs Fatty Acid Oxidation in Hepatocytes*  
Research Mentors: Erin McCauley (Chemistry and Biochemistry) and Kamrul Hasan (Drew)

**Lizeth Rojas**

*Computational Exploration of Opioid and Cannabinoid Co-Treatment: Synergistic Mechanisms for Safer and More Effective Pain Management Using Python*  
Research Mentor: Horace Crogman (Physics)

**Melissa Izaguirre**

*The role of multiple genes in long-term stationary phase of Escherichia coli*  
Research Mentor: Karin Kram (Biology)

**Thazin Yee**

*Identifying Novel Fungal Metabolites with Antibiotic Activity*  
Research Mentor: Erin McCauley (Chemistry and Biochemistry)

**Jasmin Flores-Juarez**

*Pregnancy Alters the Human Islet Antigen Expression*  
Research Mentors: Sonal Singhal (Biology), Enrique Montero and Isaac Garcia (City of Hope)

**Lesley Velasco**

*Therapeutic Potential of Small Molecule Circadian Clock Activators for Muscular Dystrophy*  
Research Mentors: Sonal Singhal (Biology), Ke Ma and Tali Kiperman (City of Hope)

## #33 Social and Behavioral Sciences and Education

### Undergraduate Oral, March 6<sup>th</sup> - LSU 326

Thursday Morning Session: 10:00 – 11:00 a.m.

10:00-10:10 a.m. **Hector Hernandez, Diana Chávez, and Jose Dominguez**

*Weaving Identity: The Evolution of the Huipil Pre and Colonial-era Mesoamerica and its role in Contemporary Guatemala*  
Research Mentor: Ken Seligson (Anthropology)

10:15-10:25 a.m. **Amanda Goodman**

*Displacement and resilience: unraveling the human cost of conflict, crisis, and migration in East Africa*  
Research Mentor: William Lucas (Anthropology)

10:30-10:40 a.m. **Diana Chávez**

*Cosmology of the Maya in Body, Space and Time*  
Research Mentor: Ken Seligson (Anthropology)

10:45-10:55 a.m. **Tori Schmidline**

*Exploring Barriers to STEM Interest Among Minority Women: A Longitudinal Survey Analysis*  
Research Mentor: Myron Sheu (Information Systems)

## #34 Education Graduate Student Developmental Oral III

### March 6<sup>th</sup> - LSU 324

#### Thursday Morning Session: 10:00 – 11:30 a.m.

10:00-10:10 a.m. **Briana Mota**

*A-B-C 1-2-3!*

Research Mentor: Margarita Landeros (School and College Counseling)

10:15-10:25 a.m. **Daisy Avalos**

*Bridging the Gap: Understanding and Supporting Middle School Students for Academic and Personal Success*

Research Mentor: Margarita Landeros (School and College Counseling)

10:30-10:40 a.m. **Jaime Ayala**

*Fostering Positive Peer Relationships at Knights Middle School*

Research Mentor: Margarita Landeros (School and College Counseling)

10:45-10:55 a.m. **Karla Celene Martinez Trevino**

*Challenges Impacting the Academic Achievement of Graduate Online Adult Learners*

Research Mentor: Margarita Landeros (School and College Counseling)

11:00-11:10 a.m. **Lindsay Martinez**

*Barriers to Passing 9th Grade Core Classes*

Research Mentor: Margarita Landeros (School and College Counseling)

11:15-11:25 a.m. **Kimberly Soria Guzman**

*Transferring with Confidence: From Community College to University*

Research Mentor: Margarita Landeros (School and College Counseling)

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