

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS



20th
STUDENT
RESEARCH
CONFERENCE

March 4-6, 2025
Loker Student Union

Congratulations from President Parham



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 20th 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 A. Parham". The signature is fluid and cursive, with a large initial "T" and "P".

Thomas A. Parham, Ph.D.
President

Welcome to SRC 2025!

Welcome to the **20th 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



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

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 (Zoom link for remote viewing)
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 (Zoom link for remote viewing)
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

Sponsored by the Office of Graduate Studies and Research

Undergraduate Oral Overall 1st Place - \$100 Graduate Oral Overall 1st Place - \$100
Undergraduate Poster Overall 1st Place - \$50 Graduate Poster Overall 1st Place - \$50

1st-Place Certificates Awarded in all Sessions 2nd-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

Anthropology	Sarah Cote, William Lucas, Ken Seligson
Art and Design	Kirstin L. Ellsworth, Di Xu
Biology	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
Chemistry and Biochemistry	Amine Laradji, Barbara Belmont, Erin McCauley, Kari Pederson
Chicana & Chicano Studies	Miguel Gutierrez
Child Development	Christina Toolan
Clinical Science	Jahan Abdi, Payman Nasr
Computer Science	Akshan Jalooli, Malcolm McCullough, Bin Tang
Criminal Justice Administration	Diego Avalos, Sarah Britto
Earth Science and Geography	Parveen Chhetri
English	Roderick Hernandez, Andrew Kalaidjian, Iara Mantenuto, Helen Oesterheld, Malik Stevenson
Health Sciences	Matt Mutchler, Pari Sabado
History	Andrea Johnson, Daniel Santana, Kerry Shannon
Information Systems	Nancy Deng, Jian-yu (Fisher) Ke, Myron Sheu
Labor Studies	Alfredo Carlos
Management and Marketing	Thomas Norman
Marital & Family Therapy	La-Quesha Robinson
Mathematics	Jessalyn Bolkema, Sharon Lanaghan, Carolyn Yarnall
Modern Languages	Melissa González-Contreras
Occupational Therapy	Yan-Hua Huang, Sheryl Ryan
Orthotics and Prosthetics	Mark Cromer, Ava Herbrick, Mojtaba Kamyab, Mark Muller
Physics	Antonia Boadi, Horace Crogman, To Dang, Lamar Glover, Apostol Gramada, John Price
Psychology	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
Public Administration	Elena Kulikov, Qiyuan (Roger) Jin, Fynnwin Prager, Rui Sun, Zheng Yang
School & College Counseling	Margarita Landeros, Adrieann Mancillas
Sociology	Esther Castillo, LaTanya Skiffer, Billy Wagner-Huang
Special Education	Kai Greene
Teacher Education	Sumino Otsuji

Judges and Moderators

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

Cheyenne Cummings, Co-chair	Briana Coleman	Lorna Schallig
Ken Seligson, Co-chair	Aysa Monae Collins	Laura Serrano
Sheree Schrage, 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

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

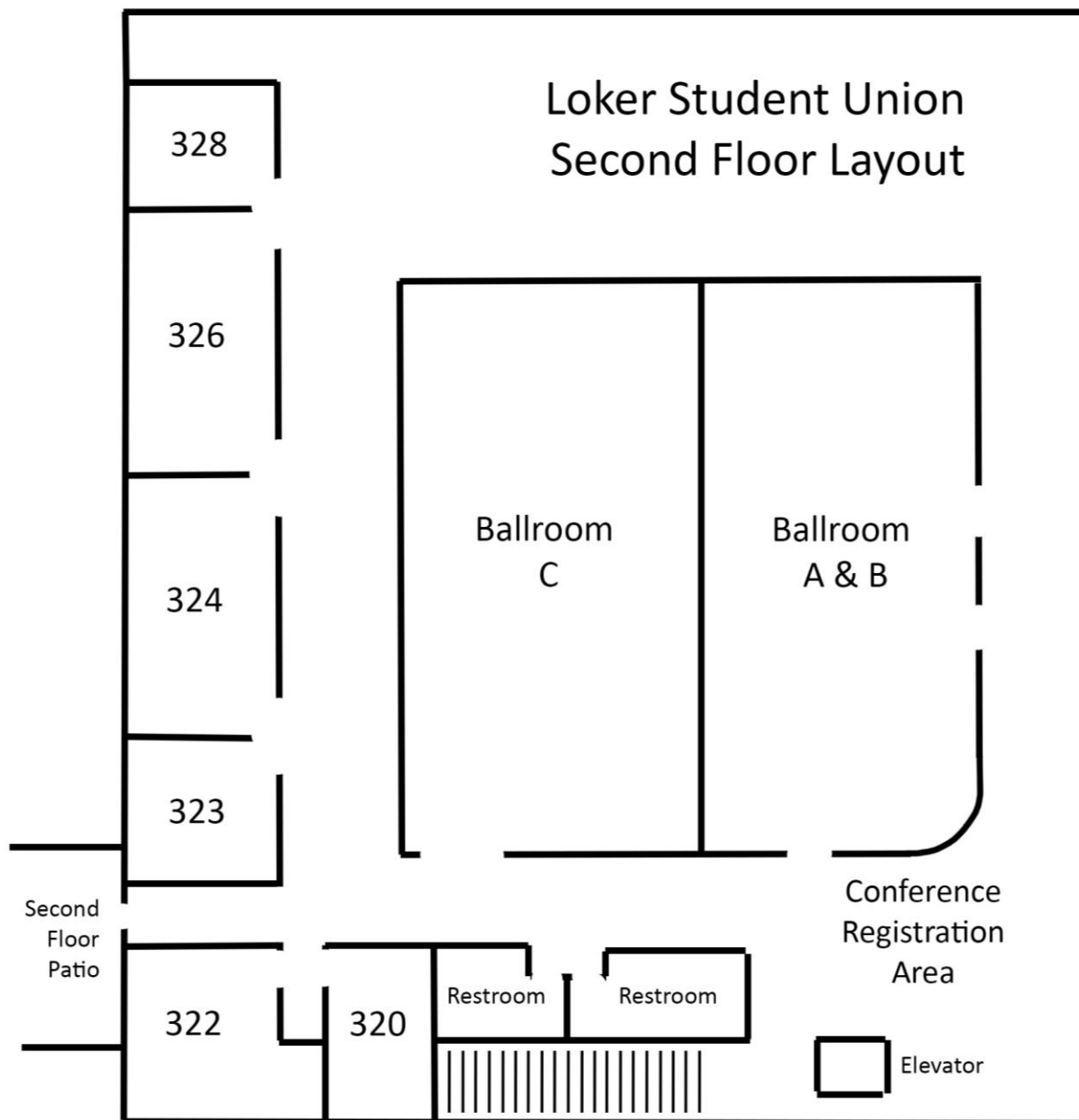
Session	Discipline	Location
# 1	Health, Nutrition, and Clinical Sciences Graduate Oral	LSU Ballroom C 9:30 a.m. – 11:15 a.m.
# 2	Biological and Agricultural Sciences Undergraduate Oral	LSU 324 9:30 a.m. – 11:15 a.m.
# 3	Humanities and Letters Undergraduate Oral I	LSU 326 10:00 a.m. – 11:15 a.m.
# 4	Physical and Mathematical Sciences and Engineering Undergraduate Poster	LSU Ballroom A & B 10:00 – 11:30 a.m.
SRC 2025 Welcome Event Live in-person and streamed via Zoom		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

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.
Break		
# 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.
Break		
# 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

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.
Closing Reception and Awards Ceremony Live in-person and streamed via Zoom		LSU Ballroom C 12:00 – 1:30 p.m.



STUDENT RESEARCH CONFERENCE 2025 VENUE MAP

TUESDAY, MARCH 4th

#1 Health, Nutrition, and Clinical Sciences

Graduate Oral, March 4th — 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 4th — 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 4th — 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 4th — LSU 324
Tuesday Afternoon Session: 2:30 – 3:30 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)

#6 Behavioral and Social Sciences Graduate Poster

March 4th — 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 4th — 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 4th — 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 4th – 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 4th — 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 4th — 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 4th – 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 Σ - $p \rightarrow \Sigma$ - p and Σ + $p \rightarrow \Sigma$ + 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 4th – 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 4th — 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 4th — 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 4th - 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)

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 5th

#17 Behavioral and Social Sciences Graduate Oral II

March 5th – 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 5th - LSU Ballroom A & B

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

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

#19 Physical and Natural Sciences, Computer Science and Engineering, Graduate Oral, March 5th - 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 5th – 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 5th - LSU Ballroom A & B

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

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

#23 Biological and Agricultural Sciences

Undergraduate Poster, March 5th - 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 5th - 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 5th - 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 5th - 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 5th - 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 5th - 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 5th - 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 5th - 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 6th

#31 Education Graduate Oral

March 6th - 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 6th - 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 6th - LSU 326

Thursday Morning Session: 10:00 – 11:15 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)

11:00-11:10 a.m. Mirna Vizcaino and Perla Gonzales

College life: Meditation to cope with Anxiety and Stress

Research Mentor: Kim Proctor (Psychology)

#34 Education Graduate Student Developmental Oral III

March 6th - 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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