



19th Annual
**STUDENT
RESEARCH**
CONFERENCE

February 14 - 16, 2024

California State University Dominguez Hills
Loker Student Union

Congratulations from President Parham



I would like to take this opportunity to congratulate all of our student researchers who are participating in the 19th Annual Student Research Conference at California State University, Dominguez Hills. Over the course of these three days, our Toro Community gets the opportunity to learn about their amazing research endeavors and to celebrate their determination, creativity, and brilliance. The annual Student Research Conference is undeniably one of the highlights of our annual academic calendar and I look forward to this momentous event every year.

Now that we are emerging from the worst of the Covid-19 pandemic, scholarly investigations and creative activities are reaching new heights on our campus. The students presenting at SRC 2024 have not only persevered through the challenges of a global pandemic, but while doing so have decided to take on the additional challenges of completing independent studies and inventive undertakings. I am in awe of their achievements and can say without a doubt that they have made their mentors, peers, friends, family, and the broader CSUDH community very proud.

I would also like to thank and congratulate the staff, faculty, and community members who have served as mentors, as we know that research is a collaborative process. Teamwork is essential to going far together within both the Toro Community and the broader South Bay Community. The CSUDH Student Research Conference exemplifies so many of the core values and aspirations that make me proud to be a Toro. Finally, I would like to thank Dean Sheree Schrager and SRC 2024 Co-Chairs Ken Seligson and Cheyenne Cummings for continuing to make sure that our student researchers have this amazing opportunity to showcase all that they have accomplished.

I welcome everyone within the Toro and broader South Bay communities who has joined us this week in celebrating our student scholars at Student Research Conference 2024.

A handwritten signature in blue ink that reads "Thomas Parham". The signature is fluid and cursive.

Thomas A. Parham, Ph.D.
President

Welcome to SRC 2024!

We are very happy to welcome everyone to the 19th Annual Student Research Conference at California State University, Dominguez Hills! This week, students from across campus will present their amazing research in front of their peers, professors, family, and friends. We are so excited for our student researchers and for the entire Toro Community.

The 2024 SRC participants should be commended not only for their excellent research projects, but also for the perseverance they have demonstrated in working through the challenging conditions of the past few years. We know that research is often collaborative effort, and so we want to extend a huge thank you to all of the mentors, peers, friends, family, and broader community members that helped to make these projects and presentations possible.

The Planning Committee is honored to welcome CSUDH graduate Dr. Rosemary Diaz (Optical Engineer, NASA Jet Propulsion Lab) as our distinguished keynote speaker. Dr. Diaz will speak about how her research experiences at DH helped launch her career.

Over the course of three days, undergraduate and graduate students will present their research in oral, poster, symposium, developmental, and roundtable workshop formats. The conference will kick off with our Keynote Welcome Reception the morning of Wednesday the 14th and conclude with an Awards Ceremony and Closing Reception at 1pm on Friday the 16th.

In addition to providing a platform for current student researchers to showcase their projects, SRC is a chance for future student researchers to learn about the wide range of opportunities available at CSUDH. We encourage students, staff, and faculty from across campus to attend presentations both within and outside their respective disciplines and majors.

The 2023 Student Research Conference is made possible through the generous sponsorship of CalWater, the IRA Committee, and the Graduate Studies and Research Office, and the dedicated efforts of research mentors, volunteer judges, and conference staff. Special thanks go to President Thomas Parham, Provost Michael Spagna, Vice-Provost Ken O'Donnell, Dean Sheree Schragger, the Department of Graduate Studies and Research team, University Ceremonies and Events, Loker Student Union, and the members of the Student Research Conference Planning Committee. We hope everyone enjoys Student Research Conference 2024!

Sincerely,

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

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

Keynote Speaker



Dr. Rosemary Diaz

CSUDH Class of 2000

Optical Engineer

NASA Jet Propulsion Laboratory

Rosemary Diaz is an optical engineer at the Jet Propulsion Laboratory (JPL). She leads a team of engineers whose work on optical testbeds has contributed to the design and development of technologies used in space exploration. Diaz joined JPL as a summer student after receiving her

bachelor's degree from California State University, Dominguez Hills. She continued working there part-time while pursuing her graduate degrees from UCLA. For the past twenty-three years, Diaz has worked on a wide range of projects, including the Space Interferometry Mission, Terrestrial Planet Finder, Orbiting Carbon Observatory, Roman Space Telescope Coronagraph, and most recently on the Grace-C mission.

As a woman working in space technology, Diaz is active in encouraging more young women to pursue careers in science. She credits the mentorship and support she received at CSUDH with helping inspire her to persist in her engineering pursuits. Especially significant was the chance to work as an undergraduate student research assistant in the international Super-Kamiokande neutrino physics study, for which she traveled to the Kamioka Observatory's Institute for Cosmic Ray Research in Hida, Japan.

Diaz earned her Bachelor of Science degree in Physics from California State University, Dominguez Hills in 2000. She received her Master's Degree (2004) and Doctorate (2008) in Electrical Engineering, with a concentration in Photonics and Optoelectronics, from UCLA.

Conference Schedule

Wednesday – February 14, 2024

Loker Student Union

8:30 – 9:00 a.m.	Registration
8:30 a.m. – 10:30 a.m.	Welcome Breakfast & Keynote Address, Ballroom C (Zoom link for remote viewing)
8:30 a.m.	Doors Opens, Breakfast Available
9:00 a.m.	Welcome Message Provost Michael E. Spagna
9:15 a.m.	Dance Performance Mosaic Dance Company will be performing <i>A Match Made</i> Choreographed by Amy Allen Cast members: Samantha Dawbarn and Julia Truong
9:30 a.m.	Keynote Address Dr. Rosemary Diaz, NASA Jet Propulsion Laboratory
10:45 a.m. – 12:15 p.m.	Morning Sessions
1:00 – 4:00 p.m.	Afternoon Sessions
5:30 – 7:00 p.m.	Evening Sessions

Thursday – February 15, 2024

Loker Student Union

9:00 – 10:00 a.m.	Registration
10:00 a.m. – 11:30 a.m.	Morning Sessions
1:00 – 3:00 p.m.	Afternoon Sessions
5:30 – 7:00 p.m.	Evening Sessions

Friday – February 16, 2024

Loker Student Union

9:00 – 10:00 a.m.	Registration
10:00 a.m. – 12:00 p.m.	Morning Sessions
1:00 – 3:00 p.m.	Reception and Awards Ceremony, Ballroom C (Zoom link for remote viewing)
1:00 – 2:00 p.m.	Dance Performance Mosaic Dance Company will be performing <i>Chemistry</i> Choreographed by Tia-Nischelle Turner Cast members: Angel Chavez, Angelina Garcia, Precious Jones, Anna Konstantinovskiy, Jordan Lewis, Christopher Martin, Julia Truong, Tia-Nischelle Turner, Samuel Villarreal
1:30 – 2:30 p.m.	Announcing the Award Winners

SRC 2024 Award Categories

Sponsored by the Office of Graduate Studies and Research

First Place in an Oral Session – Certificate & \$100

- If project has multiple presenters, the \$100 will be divided among them.

Second Place in an Oral Session - Certificate

- Awarded only if there are more than four participants in the session.

First Place in a Poster Session – Certificate & \$50

- If project has multiple presenters, the \$50 will be divided among them.

Second Place in a Poster Session - Certificate

- Awarded only if there are more than four participants in the session.

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 Offices of the Academic College Deans

CAH (Dean Tim Caron)

Arts Award (poster or oral)

Humanities Award (poster or oral)

CNBS (Dean Philip LaPolt)

Natural Sciences Award (poster or oral)

Social Sciences Award (poster or oral)

CBAPP (Dean Joseph Wen)

CBAPP First Place Award

CBAPP Second Place Award

CBAPP Third Place Award

CHHSN (Dean Mi-Sook Kim)

Health/Clinical Sciences Award (poster or oral)

Human Services Award (poster or oral)

COE (Dean Jessica Pandya)

Education Award (poster or oral)

Counseling Award (poster or oral)

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.

Research Mentors

Anthropology	William Lucas, Tim McHale, Jerry Moore, Ken Seligson, Sarah Taylor
Art and Design	Kirstin L. Ellsworth
Biology	Karin Kram, Samantha Leigh, Sonal Singhal, Kathryn Theiss, Fang Wang
Chemistry and Biochemistry	Amine Laradji, Barbara Belmont, Justin Hathaway, Erin McCauley, Kari Pederson, Arumugam Thangavel, Sen Wang, Tieli Wang
Chicana and Chicano Studies	Corina Benavides López, Alfredo González
Child Development	Angélica López-Fraire, Kara Kogachi
Clinical Science	Jahan Abdi
Computer Science	Mohammad Eyadat, Brad Hollister, Alireza Izaddoost, Bin Tang
Earth Science and Geography	Parveen Chhetri, Tianjun Luke Lu
English	Roderick Hernandez, Kimberly Huth, Iara Mantenuto, Helen Oesterheld, Jamie Thomas
History	Daniel Santana, Kerry Shannon
Information Systems	Nancy Deng, Jian-Yu (Fisher) Ke
Interdisciplinary Studies	Nate Hertweck, Annemarie Perez
Labor Studies	Alfredo Carlos
Management and Marketing	Thomas Norman
Marriage & Family Therapy	LaQuesha Robinson
Mathematics	Jessalyn Bolkema, Sharon Lanaghan, Ha Nguyen, Cynthia Sánchez Tapia, Carolyn Yarnall
Modern Languages	Miguel Domínguez, Benito Gómez
Occupational Therapy	Danielle DeLorenzo, Sheryl Ryan
Orthotics and Prosthetics	Mojtaba Kamyab, Jennifer Lučarević, Julie Werner
Physics	Horace Crogman, To Dang, Lamar Glover, Harneet Grewal, John Price, Miguel Rodríguez
Political Science	Yea Ji Kim
Psychology	Erin Barrett, Giacomo Bono, Kaylie Carbine, Steven Frieze, Suzy (Lea) Juarez, Ashley Membere, Kevin Montes, Monique Turner, Irene Tung
Public Administration	Qiyuan (Roger) Jin, Fynnwin Prager, Rui Sun
Public Health & Health Sciences	Kristen Emory, Wenli Jen, Enrique Ortega
Public Service & Justice	Diego Avalos, Sarah Britto
School & College Counseling	Margarita Landeros, Adrieann Mancillas
Social Work	Paul DuongTran
Sociology	LaTanya Skiffer
Special Education	Jenny Chiappe
Workforce Integration Network	Krystal Rawls

Judges and Moderators

Judy Aguirre	Joshua Jeffers	Kim Proctor
Cathryn Andrade	Anupama Joshi	Carol Ramirez
JoAnn Aragon	Suzu Lea Juarez	Harun Rashid
Erin Barrett	Mojtaba Kamyab	Kresh Reil
Tracy Becerra-Culquí	Kara Kogachi	LaQuesha Robinson
Sarah Britto	Megumi Kuwabara	Sheryl Ryan
Meredith Caliman	Margarita Landeros	Parichart Sabado
Kimberly Campos	Amine Laradji	Cynthia Sánchez Tapia
Nereida Carrasco	Ronecia Lark	Sabrina Sanders
Vanessa Cervantes	Juan Leon	Daniel Santana
Jenny Chiappe	Jessica Loa	Sheree Schragar
Emily Colville	Susie López-Benitez	Laura Serrano
Cheyenne Cummings	Angélica López-Fraire	Kerry Shannon
Kelley Dawdy	William Lucas	Morgan Siewert
Begona De Velasco	JC Lugo	Sonal Singhal
Erica D. Diminich	Erin McCauley	Minhye Son
Susan Einbinder	Steve McFarland	Mayra Soriano
Rida Elias	Amalia Medina Castañeda	Jen Stacy
Gillian Fischer	Nancy Melucci	Geneiva Sweeney
Paul Fornelli	Ashley Membere	Kathryn Theiss
Steven Frieze	Christopher Monty	Christina Toolan
Kai Greene	Payman Nasr	Irene Tung
Harneet Grewal	Bree Nguyen	Monique Turner
Aric Haas	Ha Nguyen	Jasmine Vaca
Christopher Hallenbrook	Carolyn Oudiz	Annalyn Valdez-Dadia
LaTeira Haynes	Sheela Pawar	Marisela Velázquez
Brynn Heckel	Kari Pederson	Michelle Waiters Martinez
Dakota Hughes	John Price	Carolyn Yarnall

Event Organizers

Cheyenne Cummings, Co-chair	Gillian Fischer	Lorna Schallig
Ken Seligson, Co-chair	Brigitte Gonzalez-Rosales	Laura Serrano
Sheree Schrage, Dean	Imelda Hammes	Christian Smith
Judy Aguirre	Dakota Hughes	Rowynn Spencer
Tigress Briggs-Wroten	Akshay Kalsotra	Danny Tamayo
Nikya Bryant	Johnathan Mejia	Valencia Teems
Vanessa Cervantes	Chi Nguyen	Janet Trujillo
Aysa Monae Collins	Alyanna Paulino	Michelle Waiters Martinez

SRC 2024 Planning Committee

Alfredo Carlos	Jess Marinaccio	Meghna Singhvi
Alfredo Gonzalez	Jessica Federman	Miriam Hernandez
Annalyn Valdez Dadia	Kai Greene	Mojtaba Kamyab
Ashley Membere	Kaitlyn Breiner	Nestor Garza
Carolyn Oudiz	Kaylie Carbine	Roya Azizi
Hui Li	Kerry Shannon	Sheryl Ryan
Iara Mantenuto	Kim Proctor	Vera Kunte
Jahan Abdi	Maggie Landeros	William Lucas
Jen Stacy	Marisela Velázquez	

Wednesday Presentation Schedule

February 14, 2024

Session	Discipline	Location
	Welcome Reception and Keynote Address Live in-person and streamed via Zoom	LSU Ballroom C 9:00 – 10:30 a.m.
# 1	Behavioral, Social Sciences and Public Administration Graduate Oral	LSU Ballroom C 10:45 a.m. – 12:00 p.m.
# 2	Behavioral, Social Sciences and Public Administration Undergraduate Oral I	LSU 326 10:45 a.m. – 12:00 p.m.
# 3	Biological and Agricultural Sciences Undergraduate Oral	LSU 324 10:45 – 11:30 a.m.
# 4	Physical and Mathematical Sciences Undergraduate Poster	LSU Ballroom A & B 10:45 a.m. – 12:15 p.m.
# 5	Behavioral, Social Sciences and Public Administration Undergraduate Poster I	LSU Ballroom A & B 10:45 a.m. – 12:15 p.m.
	Break	
# 6	Education Graduate Oral	LSU Ballroom C 1:00 – 2:45 p.m.
# 7	Humanities and Letters Undergraduate Oral I	LSU 324 1:00 – 2:00 p.m.
#8	Biological and Agricultural Sciences Undergraduate Poster I	LSU Ballroom A & B 1:00 – 2:30 p.m.
#9	Behavioral, Social Sciences and Public Administration Undergraduate Poster II	LSU Ballroom A & B 1:00 – 2:15 p.m.
#10	Developmental: Behavioral, Social Sciences, Education, and Business Graduate and Undergraduate Poster	LSU Ballroom A & B 2:30 – 4:00 p.m.
	Break	
#11	Behavioral, Social Sciences and Public Administration Graduate Oral	LSU Ballroom C 5:30 – 6:45 p.m.
#12	Physical and Mathematical Sciences Undergraduate Oral I	LSU 324 5:30 – 7:00 p.m.
#13	Business and Economics Undergraduate Oral	LSU 326 5:30 – 6:30 p.m.
#14	Biological and Agricultural Sciences Graduate Poster	LSU Ballroom A & B 5:30 – 7:00 p.m.
#15	Graduate Roundtable	LSU 322 5:30 – 6:30 p.m.

Thursday Presentation Schedule

February 15, 2024

Session	Discipline	Location
# 16	Physical and Mathematical Sciences Undergraduate Oral II	LSU 324 10:00 – 11:30 a.m.
# 17	Symposium: CSUDH WIN Digital Inequity Research Efforts Undergraduate	LSU 326 10:00 – 11:30 a.m.
# 18	Biological and Agricultural Sciences Undergraduate Poster II	LSU Ballroom A & B 10:00 a.m. – 12:00 p.m.
# 19	Health, Nutrition, and Clinical Sciences Graduate Poster	LSU Ballroom A & B 10:00 a.m. – 11:30 a.m.
Break		
# 20	Physical and Mathematical Sciences Graduate Oral	LSU Ballroom C 1:00 – 2:15 p.m.
# 21	Behavioral, Social Sciences and Public Administration Undergraduate Oral II	LSU 324 1:00 – 2:15 p.m.
# 22	Engineering and Computer Science Graduate Oral	LSU 326 1:00 – 2:00 p.m.
# 23	Physical, Mathematical Sciences and Computer Science Undergraduate Poster	LSU Ballroom A & B 1:00 – 2:30 p.m.
# 24	Behavioral, Social Sciences and Public Administration Undergraduate Poster III	LSU Ballroom A & B 2:30 – 4:00 p.m.
Break		
# 25	Health, Nutrition, and Clinical Sciences Graduate Oral	LSU Ballroom C 5:30 – 6:45 p.m.
# 26	Education (Developmental) Graduate Oral	LSU 324 5:30 – 6:30 p.m.
# 27	Behavioral, Social Sciences and Public Administration Graduate Poster	LSU Ballroom A & B 5:30 – 7:00 p.m.

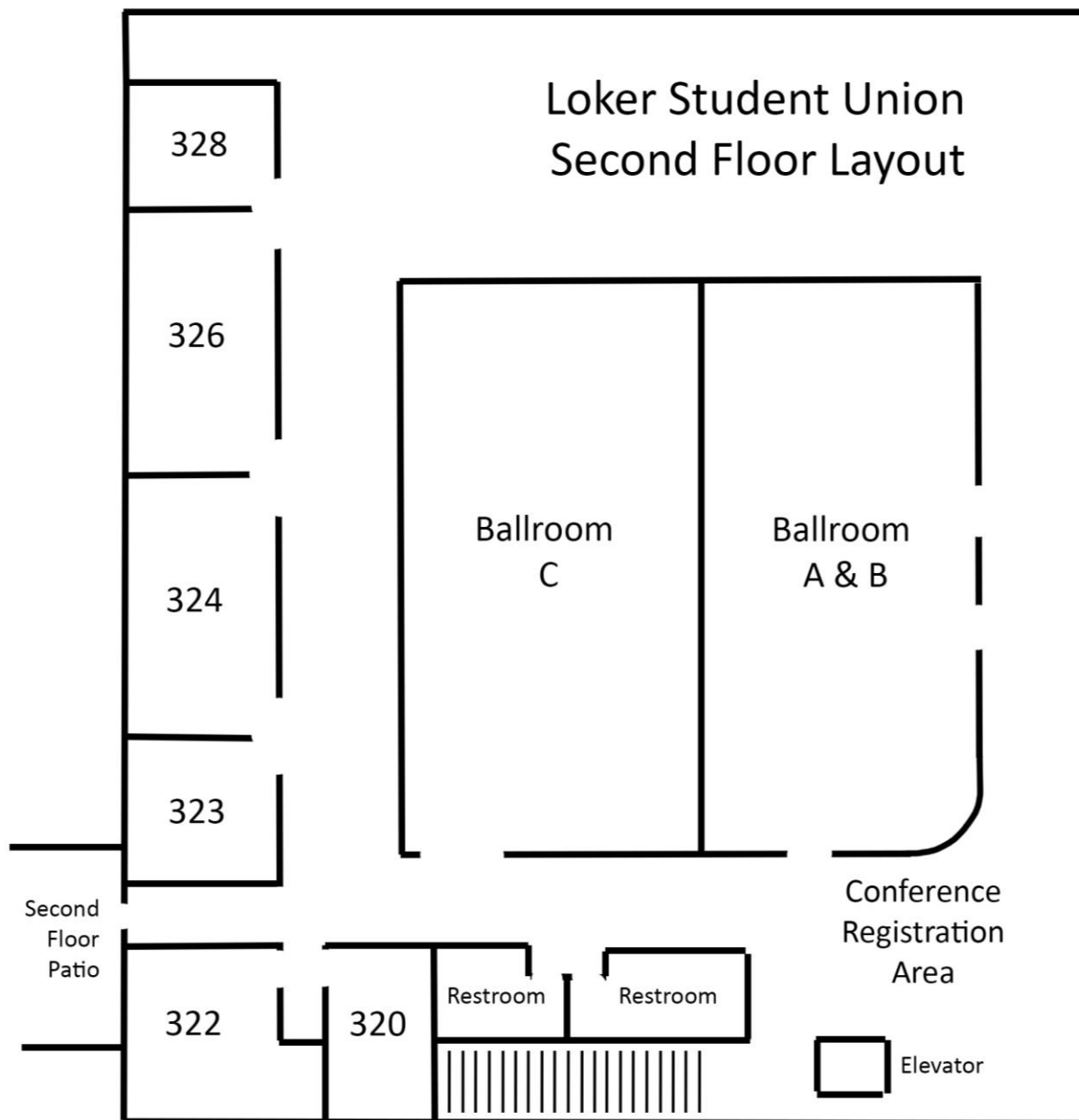
Friday Presentation Schedule

February 16, 2024

Session	Discipline	Location
# 28	Humanities and Letters Undergraduate Oral II	LSU 324 10:00 a.m. – 11:30 a.m.
# 29	Health, Nutrition, and Clinical Sciences Undergraduate Oral	LSU Ballroom C 10:00 – 11:15 a.m.
# 30	Education (Developmental) Graduate Oral II	LSU 326 10:00 – 11:45 a.m.
#31	Engineering and Computer Science Graduate Poster	LSU Ballroom A & B 10:00 – 11:30 a.m.
#32	Behavioral, Social Sciences and Public Administration Undergraduate Poster IV	LSU Ballroom A & B 10:00 – 11:30 a.m.
Closing Reception and Awards Ceremony Live in-person and streamed via Zoom		LSU Ballroom C 1:00 p.m. – 3:00 p.m.

Please note the following Receptions and Performances that will be offered in addition to the Student Presentation Sessions:

Welcome Reception, Dance Performance, and Keynote Address Live in-person and streamed via Zoom	LSU Ballroom C Wednesday, Feb. 14 th 8:30-10:30am
Closing Reception, Dance Performance, and Awards Ceremony Live in-person and streamed via Zoom	LSU Ballroom C Friday, Feb. 16 th 1:00 p.m. – 3:00 p.m.



STUDENT RESEARCH CONFERENCE 2024 VENUE MAP

WEDNESDAY, FEBRUARY 14

Welcome Reception Dance Performance

February 14, 9:00 a.m. – LSU Ballroom C

Mosaic Dance Company will be performing *A Match Made*

Choreographed by Amy Allen

Cast members: Samantha Dawbarn and Julia Truong

#1 Behavioral, Social Sciences and Public Administration

Graduate Oral, February 14 — LSU Ballroom C

Morning Session: 10:45 a.m. – 12:00 p.m.

10:45-10:55 a.m. Katherine La, Christina Giang, Katherine Lin, and Jessica Vo

The Occupational Impacts of Anti-Asian Hate

Research Mentor: Sheryl Ryan (Occupational Therapy)

11:00-11:10 a.m. Vanessa Wilder, Leslie Marchelli, Estephanie Perez, and Jennifer Nguyen

"Seguir Adelante:" The Experiences of Latino Immigrant Caregivers of Children with Disabilities

Research Mentor: Sheryl Ryan (Occupational Therapy)

11:15-11:25 a.m. Hayley Cooper and Elsa Vong

Emotions Affecting Your Diet? A Psychophysiological Investigation on the Impact of Valence and Arousal on Food-Related Inhibitory Control

Research Mentor: Kaylie Carbine (Psychology)

11:30-11:40 a.m. Daniela Garcia, Neena Dosanjh, Bria Newman, and Nancy Perla

Experiences of Cultural Dressing and its Implications for Occupational Therapy Practice

Research Mentor: Sheryl Ryan (Occupational Therapy)

11:45-11:55 a.m. Farshid Raminfar (via Zoom)

The Role of Social Media in Governance and Public Participation

Research Mentors: Rui Sun and Qiyuan Jin (Public Administration)

#2 Behavioral, Social Sciences and Public Administration

Undergraduate Oral I, February 14 — LSU 326

Morning Session: 10:45 a.m. – 12:00 p.m.

10:45 – 10:55 a.m.

Precious Jones

Changes in Religious Identity and Self-Esteem during the transition to Early Adulthood

Research Mentor: Irene Tung (Psychology)

11:00 – 11:10 a.m.

Diana Chávez

Stars, Sanctuaries, and Platforms: Investigating the Significance of Spatial Orientation in the Northern Maya Lowlands

Research Mentor: Ken Seligson (Anthropology)

11:15 – 11:25 a.m. **Isabelle Hutchins**
Tagalog Heritage Speakers' Perception and Production of Primary Stress
Research Mentor: Iara Mantenuto (English)

11:30 – 11:45 a.m. **Angel Perez**
Concepts Most Successfully Learned and Most Challenging to Students in a Redesigned Pre-Calculus Course
Research Mentor: Ha Nguyen (Mathematics)

#3 Biological and Agricultural Sciences Undergraduate Oral February 14 — LSU 324

Morning Session: 10:45 – 11:30 a.m.

10:45 – 10:55 a.m. **Charles Godinez**
Antibody Selection for GeoMx Segmentation of Cell Sub-Populations in the Fallopian Tube Epithelial Mucosa
Research Mentors: Sonal Singhal (Biology) and Scott Lindsay-Hewett (UCSD)

11:00 – 11:10 a.m. **Jessica Sklar and Victoria Ramirez**
Using Zebrafish as a Model System to Study the Effects of Microplastic Ingestion on Fecal Microbiomes
Research Mentors: Fang Wang and Samantha Leigh (Biology)

11:15 – 11:25 a.m. **Kahlil Scott (via Zoom)**
Exploring Puma Habitat Requirements in Southern California
Research Mentor: Tianjun Luke Lu (Earth Science)

#4 Physical and Mathematical Sciences

Undergraduate Poster, February 14 — LSU Ballroom A & B

Morning Session: 10:45 a.m. – 12:15 p.m.

Alicia Bennett-Smith
Assessment of Commercial Fragrance Compounds for Compliance to IFRA Standards
Research Mentor: Barbara Belmont (Chemistry and Biochemistry)

Roxana Chavez, Jorge Hernandez, and Ana Ponce
Dereplication of Marine Fungi Secondary Metabolites using MALDI-TOF Mass Spectrometry
Research Mentor: Erin McCauley (Chemistry and Biochemistry)

Ericka Dunsmore
Utilizing Ordinary Differential Equations to Track the Spread of COVID-19 Throughout California State University, Dominguez Hills
Research Mentor: Cynthia Sanchez Tapia (Math)

Vanessa Zamora
Carbon-Based Material from Waste Biomass and Its Usage in the Fabrication of Electrical Energy Storage Components
Research Mentor: Lamar Glover (Physics)

David Rocha
Optimization of Periodate Dose used for Manganese Assay as Permanganate
Research Mentor: Barbara Belmont (Chemistry and Biochemistry)

#5 Behavioral, Social Sciences and Public Administration Undergraduate Poster I, February 14 — LSU Ballroom A & B Morning Session: 10:45 a.m. – 12:15 p.m.

Michelle Belmontes, Marelin Marquez, Jesus

Figueroa, and Kayla Leon

Did Gratitude and Self-esteem Help Protect Well-being During the Pandemic

Research Mentor: Giacomo Bono (Psychology)

India Sanders

Adapting Amidst Adversity: Understanding the Impact of COVID-19 on Mental Health and Resource Utilization among Minority College Students at CSUDH

Research Mentor: Ashley Membere (Psychology)

Taylor Galuppi

On the Presence of Parental Education: A Literature Review

Research Mentor: William Lucas (Anthropology)

Loren Barbosa

Emergency Preparedness in Under-Resourced Communities

Research Mentor: Wenli Jen (Public Health and Health Sciences)

Alondra Vanegas

The Impact of Perceived Minority Status on Adolescents' Positive Life Expectancies During the Transition to Adulthood

Research Mentor: Irene Tung (Psychology)

Ana Castillo

It's Complicated. Contraceptive Use on College Campuses: Attitudes and Beliefs on Safe Sex

Research Mentor: Ken Seligson (Anthropology)

Areli Barrera-Ramírez

La Danza del Tecuani

Research Mentor: Miguel Domínguez (Modern Languages)

#6 Education Grad Oral, February 14 — LSU Ballroom C Afternoon Session: 1:00 – 2:30 p.m.

1:00 – 1:10 p.m.

Gabriella Amaya, Kaitlyn Do, Krista Hernandez, and Mark Gazmen

Experiences of undergraduate college students with ADHD and their Perception of Accommodations

Research Mentor: Sheryl Ryan (Occupational Therapy)

1:15 – 1:25 p.m.

Dalia Sabo, Andrea Dickey, Sophie Samaniego, and Catheline Phan

Teachers' Perceptions of Occupational Therapy in General Education

Research Mentors: Sheryl Ryan and Danielle DeLorenzo (Occupational Therapy)

1:30 – 1:40 p.m.

Jessica Alvarez

School Counselors Leadership

Research Mentor: Margarita Landeros (School and College Counseling)

1:45 – 1:55 p.m.

Gauri Deshpande, Cindy Argueta, Shaey Entezami, and Rachel Kraus-Lee

Meaningful Occupations of Master of Science in Occupational Therapy (MSOT) Students

Research Mentor: Sheryl Ryan (Occupational Therapy)

2:00 – 2:10 p.m. **Wakana Seo, Grace Ghitea, Damarice Herrera, and Valerie Ortega**
The Experiences of Unpaid Latino/a Caregivers Taking Care of Aging Family Members
Research Mentor: Sheryl Ryan (Occupational Therapy)

2:150 – 2:25 p.m. **Alyssa Suzuki, Jennifer Siu, Karis Ma, and Erin Kim**
Perceptions of Elementary School Teachers Regarding the Socio-Emotional Development of Elementary School Aged Students Post-Pandemic
Research Mentor: Sheryl Ryan (Occupational Therapy)

#7 Humanities and Letters Undergraduate Oral

February 14 — LSU 324

Afternoon Session: 1:00 – 2:00 p.m.

1:00 – 1:10 p.m. **Glenn Smith**
Major Taylor: A Black Meteor
Research Mentor: Nate Hertweck (Interdisciplinary Studies)

1:15 – 1:25 p.m. **Jose Dominguez**
Unaccompanied & Undocumented: Depictions of Fictive Kinship & Unaccompanied Minors in Film
Research Mentor: Sarah Taylor (Anthropology)

1:30 – 1:40 p.m. **Florencia Bravo**
"Frailty, thy name is woman": Examining Female Infidelity, Chastity, and Consent, in Rowley and Middleton's The Changeling and Heywood's A Woman Killed with Kindness
Research Mentor: Kimberly Huth (English)

1:45 – 1:55 p.m. **Efrain Contreras**
Criticism of Imperialism and Colonization by Joseph Conrad A Heart of Darkness
Research Mentor: Kerry Shannon (History)

#8 Biological and Agricultural Sciences Undergrad Poster February 14 — LSU Ballroom A & B

Afternoon Session: 1:00 – 2:30 p.m.

Leslye Villalobos

Competing Genes yfbN and yciG to Determine their Role in Long Term Stationary Phase in Escherichia coli
Research Mentor: Karin Kram (Biology)

Junior Bail

How is topography controlling the vegetation pattern in Los Angeles National Forest?
Research Mentor: Parveen Chhetri (Earth Science)

Emmanuel Zamitiz

Investigation into the Pharmaceutically Relevant Bioactivity of Fungal Metabolites from a Penicillium sp. CREWS 48
Research Mentor: Erin McCauley (Chemistry and Biochemistry)

Paola Martinez, Ronald Bernal, Robert Hill, and Anthony Diaz

Temozolomide (TMZ) methylates histone proteins in breast cancer cells
Research Mentor: Tieli Wang (Chemistry and Biochemistry)

Anthony Huizar

Vegetation Distribution Analysis at CSUDH for Enhancing the Campus Greenery
Research Mentor: Parveen Chhetri (Earth Science)

Carlos Zuniga

The Aboveground Response in a New Forest Edge
Research Mentor: Kathryn Theiss (Biology)

Kahlil Scott

Cereal Milk Grow
Research Mentor: Parveen Chhetri (Earth Science)

Melissa Izaguirre

The role of cmoA and cmoB during long-term stationary phase in Escherichia coli
Faculty Advisor: Karin Kram (Biology)

Stephania Ramirez and Ana Ponce

Investigation into the Pharmaceutically Relevant Bioactivity of Fungal Metabolites from a Fusarium sp. and Malbranchea sp.
Research Mentor: Erin McCauley (Chemistry and Biochemistry)

Vanessa Brizuela

lncRNA-CEL2 RNA Protein Binding in Multiple Myeloma Promotes Apoptosis
Research Mentor: Barbara Belmont (Chemistry and Biochemistry)

#9 Behavioral, Social Sciences and Public Administration Undergraduate Poster II, February 14 — LSU Ballroom A & B

Afternoon Session: 1:00 – 2:30 p.m.

Jose Quintero

Mapping the Ancient Maya Site of Xanab Chak, Mexico
Research Mentor: Ken Seligson (Anthropology)

Raul Medina

Geospatial Technology Approach to Understanding Ferrel Horse Habitats in California
Research Mentor: Parveen Chhetri (Earth Science)

Janette Villafana

Education, Corruption, and Democratic Participation: The Mexican Case and Beyond
Research Mentor: Yea Ji Kim (Political Science)

Omar Barahona

The significance of a seashell collection
Research Mentor: Kathryn Theiss (Biology)

Ramiro Rodriguez Sanchez

Immigrant Generational Status and Parenting Behaviors as Predictors for Marijuana Use among Latinx Adolescents
Research Mentor: Irene Tung (Psychology)

Francisca Nuñez

The Astos' Settlement Pattern in the Late Intermediate Period
Research Mentors: Ken Seligson and Jerry Moore (Anthropology)

#10 Developmental Session: Behavioral, Social Sciences, Education, and Business Graduate & Undergraduate Poster February 14 — LSU Ballroom A & B

Afternoon Session: 2:30 – 4:00 p.m.

Maria Amador

The Impact of Racial/Ethnic Discrimination on Adolescent Mental Health

Research Mentor: Kara Kogachi (Child Development)

Javier Lima

The Relationship Between Pursuit of Value-Aligned Goals, Psychological Well-being, and Life Satisfaction in First Generation College Students

Research Mentor: Monique Turner (Psychology)

Stephanie Lopez, Nicole Sanders, Alejandra Diaz, Ashley Collazo, and Andrew Navarro

Sleep Quantity and types of Music affect Working Memory

Research Mentor: Erin Barrett (Psychology)

Elizabeth Diaz, Dulce Ornelas, Lara Khedesian, David Dominguez, Diana Moreno, Jennifer Sanchez, Brandon Rodriguez, and Salvador Elizarraraz

Background Color and Word type Effects on Working Memory

Research Mentor: Erin Barrett (Psychology)

Yahaira Montoya

Understanding Chronic Absenteeism of High School Students to Improve Attendance

Research Mentor: Margarita Landeros (School and College Counseling)

Chloe Director

Family Secrets: A Qualitative Phenomenological Study about the Experiences of Parents Who Felt Encouraged to Disclosed Their Use of Donor Conception due to the Rise and Accessibility of DNA Testing

Research Mentor: LaQuesha Robinson (Marital and Family Therapy)

#11 Behavioral, Social Sciences and Public Administration Graduate Oral, February 14 - LSU Ballroom C

Evening Session: 5:30 – 7:00 p.m.

5:30 – 5:40 p.m. Ana Arvizu

Post-Roe v. Wade: Uncovering Abortion Attitudes

Research Mentor: LaTanya Skiffer (Sociology)

5:45 – 5:55 p.m. Sarah Rohloff, Guadalupe Banelos Diaz, Jaynie MacDonald, and Celine Ly

The Lived Experience of Transgender Athletes in Competitive Sports

Research Mentor: Sheryl Ryan (Occupational Therapy)

6:00 – 6:10 p.m. Noe Rodriguez Cisneros, Michael Nishimura, Hernan Sebastian, and Jacob O'Malley

Immigration's Impact on Patterns of Occupation for Older Adults from Rural Latin America

Research Mentor: Sheryl Ryan (Occupational Therapy)

6:15 – 6:25 p.m. Neve Rosa, Katie Bracewell, and Tiffany Lee
Long-term occupational enablement of club sports in adolescence: A narrative study
Research Mentor: Sheryl Ryan (Occupational Therapy)

6:30 – 6:40 p.m. Ruth Meza, Frazier Hurwin, and Chelsea Derbonne
Social Support as a LGBTQIA+ Member Within a 12 Step Program Promotes Long Term Sobriety, Occupational Participation, and Wellbeing
Research Mentor: Sheryl Ryan (Occupational Therapy)

#12 Physical and Mathematical Sciences

Undergraduate Oral I, February 14 - LSU 324

Evening Session: 5:30 – 7:00 p.m.

5:30 – 5:40 p.m. Brandon Chavez, Stephanie Rauda, Kenia Vidal, Rochelle Johnson, and Bradley Heath
HIV-1 p17 Heparan Sulfate Interaction
Research Mentor: Kari Pederson (Chemistry and Biochemistry)

5:45 – 5:55 p.m. Melissa Estrada, Ana Ponce, Jorge Hernandez, and Edwin Chavez Santana
Identification of Fungal Natural Products that Exhibit Cytotoxic Activity Towards a Brain Cancer Cell Line
Research Mentor: Erin McCauley (Chemistry and Biochemistry)

6:00 – 6:10 p.m. Anthony Trochez
Smoke on the Water: A Fire History of North Lake Tahoe
Research Mentor: Parveen Chhetri (Earth Science)

6:15 – 6:25 p.m. Athena Tran
Simulation of Nuclear Physics Processes with Short-Lived Beams
Research Mentor: John Price (Physics)

6:30 – 6:40 p.m. Matthew Kuljis
Lambda-Proton Elastic Scattering using Inclusively Produced Beams
Research Mentor: John Price (Physics)

6:45 – 6:55 p.m. Michelle Crouse
The Experiences of Undergraduate Minority Students in STEM
Research Mentor: Miguel Rodriguez (Physics)

#13 Business and Economics Undergraduate Oral

February 14 - LSU 326

Evening Session: 5:30 – 6:15 p.m.

- 5:30 – 5:40** **Dwanjai Oprien**
Supply Chain Resilience through Transportation Modal Flexibility
Research Mentor: Jian-Yu Fisher Ke (Information Systems & Operations Management)
- 5:45 – 5:55** **Caleb Padilla**
Underserved Students and Their Experience with Data Analysis Software: Their Self-assessment and Motivation to Learn
Research Mentor: Nancy Deng (Information Systems)
- 6:00 – 6:10** **Eric Jones**
Mapping the Career Opportunities for Students Within the Homeland Security Enterprise
Research Mentor: Fynnwin Prager (Management and Marketing)

#14 Biological and Agricultural Sciences Graduate Poster

February 14 - LSU Ballroom A & B

Evening Session: 5:30 – 7:00 p.m.

- | | |
|---|--|
| Candy Saucedo
<i>Analyzing the importance of ydhI during Long Term Stationary Phase in Escherichia coli</i>
Research Mentors: Karin Kram (Biology) | Jeffrey Herschler
<i>Breathing Easy in Academic Environments: Evaluating CO2 Levels Across CSUDH</i>
Research Mentor: Parveen Chhetri (Earth Science) |
| Ricardo Aguayo
<i>Spatial Analysis of Solar Energy Distribution in Los Angeles County's Disadvantaged Communities</i>
Research Mentor: Parveen Chhetri (Earth Science) | Sarah Reyes-Vizcarra
<i>Boron in Wastewater: Unveiling Its Environmental Impact</i>
Research Mentor: Parveen Chhetri (Earth Science) |
| Alex Cavazos
<i>Campus Canopies in Crisis? Tracking Tree Distribution Changes at CSUDH</i>
Research Mentor: Parveen Chhetri (Earth Science) | |

#15 Graduate Roundtable, February 14 - LSU 322

Evening Session: 5:30 – 6:30 p.m.

- Sandra Khim-Pamanian**
Lost Beyond Numbers: Embracing the Unquantifiable Aspects in Seeking Mental Health Support Within Cambodian-Americans
Research Mentor: Paul DuongTran (Social Work)
- Karina Martinez**
Using ChatGPT for Nonprofit Fundraising and Marketing
Research Mentor: Rui Sun (Public Administration)
- Keyi Hu and David Mejia**
Exploring the Dynamics of Language Transfer and Motivation in L2 Acquisition
Research Mentor: Jamie Thomas (English)

THURSDAY, FEBRUARY 15

#16 Physical and Mathematical Sciences

Undergraduate Oral II, February 15 - LSU 324

Morning Session: 10:00 – 11:30 a.m.

- 10:00 – 10:10 a.m. **Rashad Hall**
Bioheat Transfer Modeling in Biophysics Using the Finite Element Method from FeniCS Package
Research Mentors: Horace Crogman and To Dang (Physics)
- 10:15 – 10:25 a.m. **Allen Ng**
Redox Activity Vs. Substituents: Synthesis of Aryl-X And Pyridinium Substituted-1,3,5 Triazine
Research Mentor: Arumugam Thangavel (Chemistry and Biochemistry)
- 10:30 – 10:40 a.m. **Anthony Scott**
The $KOp \rightarrow KSp$ process and KSp Elastic Scattering
Research Mentor: John Price (Physics)
- 10:45 – 10:55 a.m. **Gisela Alvarez**
Mathematical Analysis of the Biophysical Response of in vitro Epigallocatechin Gallate (EGCG) treated Hyperglycemic Human Microvascular Endothelial Cells (HMEC-1) and Epithelial Rat Osteosarcoma (UMR 106) Cells Using Electric Cell-Substrate Impedance Sensing (ECIS) Technology
Research Mentor: Horace Crogman (Physics)
- 11:00 – 11:10 a.m. **Jose Fabian Rodriguez**
The Proton-Proton Elastic Scattering Process
Research Mentor: John Price (Physics)

#17 Symposium: CSUDH WIN Digital Inequity Research Efforts

February 15 - LSU 326

Morning Session: 10:00 – 11:30 a.m.

Research Mentors: Drs. Krystal Rawls, Ashley Membere, Nancy Deng, and Annemarie Perez

Manuel Cervantes, *CSUDH WIN Digital Inequity Research Efforts*

Jesus Rocha, *Overcoming the Digital Divide Through Knowledge and Confidence*

Mark Blan (via Zoom), *Connecting Communities: Strategies and Successes in Closing the Digital Divide*

Caleb Padilla, *Understanding Students' motivation to learn Spreadsheet software: An empirical study*

#18 Biological and Agricultural Sciences

Undergraduate Poster II, February 15 - LSU Ballroom A & B

Morning Session: 10:00 – 11:30 a.m.

Stephanie Lopez and Ana Ponce

Exploring Fungal-Derived Compounds for Potential Brain Cancer Treatments

Research Mentor: Erin McCauley (Chemistry and Biochemistry)

Kimberly Randolph

The effects of genes yhfK and ygbE on Escherichia coli during long term stationary phase

Research Mentor: Karin Kram (Biology)

Brianna Orantes and Sandra Flores

Use in situ hybridization to study the expression patterns of skin enriched genes in zebrafish embryos

Research Mentor: Fang Wang (Biology)

Paola Moreno

The importance of ybjS and yccJ for Escherichia coli survival in long term stationary phase

Research Mentor: Karin Kram (Biology)

Stephanie Rauda, Kenia Vidal, and Rochelle Johnson

Optimizing HIV-1 p17 Protein Expression

Research Mentor: Kari Pederson (Chemistry and Biochemistry)

Cristy Vega and Ana Ponce

Identification of Tyrosinase Inhibitors from Plant Derived Extracts for Cosmeceutical Development

Research Mentor: Erin McCauley (Chemistry and Biochemistry)

Alexandria Calderon

The Role of YobD in Escherichia coli's Ability to Survive Long-Term Stationary Phase

Research Mentor: Karin Kram (Biology)

April Princing

Identifying the Role yigZ and ymgF Play in Long Term Stationary Phase in Escherichia coli

Research Mentor: Karin Kram (Biology)

Melissa Lozano

The Role of ycgX in Survival of Escherichia coli in Long-Term Stationary Phase

Research Mentor: Karin Kram (Biology)

#19 Health, Nutrition, and Clinical Sciences Graduate Poster

February 15 - LSU Ballroom A & B

Morning Session: 10:00 – 11:30 a.m.

Brogan Comstock, Janet Trujillo, and Ryne Fuhrmark

Tensile strength testing of bio-polyethylene and recycled polyethylene as alternative materials for ankle foot orthosis fabrication

Research Mentor: Mojtaba Kamyab and Julie Werner (Orthotics and Prosthetics)

Levi Gilbert, Mark Angel Castillo, Samantha Silverman, and Jedediah Santos

Improvement in Upper Extremity Function Through Tactile Feedback

Research Mentor: Mojtaba Kamyab (Orthotics and Prosthetics)

Paraskevi Constantinides, Melissa Warden, Zachariah Barber, and Dylan Mungal

Does the Weight of a Prosthesis Impact Balance and Stability in Transtibial Amputees Concerning Spatial-Temporal Variables?

Research Mentor: Mojtaba Kamyab (Orthotics and Prosthetics)

Kelly Marthaler, Christen Low, and Amber Artis

Styrene Levels Before, During, and After Lamination

Research Mentor: Mojtaba Kamyab (Orthotics and Prosthetics)

Samantha Silverman

OrthoTICS: Research and Development of Orthotic Treatment for Tourette's Syndrome

Research Mentor: Mojtaba Kamyab (Orthotics and Prosthetics)

#20 Physical and Mathematical Sciences Graduate Oral February 15 - LSU Ballroom C

Afternoon Session: 1:00 – 2:15 p.m.

- 1:00 – 1:10 p.m. David Saldana, Carlos Zuniga, and Anthony Trochez**
Examining Climate-Growth Interactions in Pinus jeffreyi in San Jacinto, CA
Research Mentor: Parveen Chhetri (Earth Science)
- 1:15 – 1:25 p.m. Azure Fisher**
Environmental justice in air quality and warehouses - Empirical evidence of air pollution exposure within a warehouse cluster and adjacent neighborhood in South Los Angeles
Research Mentors: Tianjun Luke Lu and Parveen Chhetri (Earth Science), Fynnwin Prager (Management and Marketing)
- 1:30 – 1:40 p.m. Madison Medhat**
Los Angeles: Are the Current Infrastructures Enough for Future Energy Demands Triggered by Climate Change
Research Mentor: Parveen Chhetri (Earth Science)
- 1:45 – 1:55 p.m. Alexander Centner**
Footprint in your coffee cup: A lifecycle analysis of coffee roasted in Southern California
Research Mentor: Parveen Chhetri (Earth Science)
- 2:00 – 2:10 p.m. Fayola Autry (via Zoom)**
Application of Geospatial Tools for Monitoring Wetland Degradation in Rwanda
Research Mentors: Rui Sun (Public Administration), and Gebremichael Mekonnen and Abraham Ekperusi (UCLA)

#21 Behavioral, Social Sciences and Public Administration Undergraduate Oral II, February 15 - LSU 324

Afternoon Session: 1:00 – 2:15 p.m.

- 1:00 – 1:10 p.m. Alina Espinoza and Gaby Isabella Almaraz-Roman**
Hungry for Money or Candy? Evaluating the Impact of Fasting on Psychophysiological Responses to Monetary and Food Rewards
Research Mentor: Kaylie Carbine (Psychology)
- 1:15 – 1:25 p.m. Veronica Hernandez**
College Students' Emotional Well-Being
Research Mentor: Kim Proctor (Psychology)
- 1:30 – 1:40 p.m. Alyssa Guerrero**
Material Culture Changes at the Ancient Maya Site of Xanab Chak
Research Mentor: Ken Seligson (Anthropology)
- 1:45 – 1:55 p.m. Lynn Ngo**
Navigating Racial/Ethnic Diversity and Numeric Marginalization in Middle School: Effects on Psychosocial Adjustment
Research Mentor: Kara Kogachi (Child Development)
- 2:00 – 2:10 p.m. Reese Santonil**
Creating a 3D Digital Record of Ancient Maya
Research Mentor: Ken Seligson (Anthropology)

#22 Engineering and Computer Science Graduate Oral February 15 - LSU 326

Afternoon Session: 1:00 – 2:00 p.m.

- 1:00 – 1:10 p.m. Muhammad Zaid Kamil**
Integration of IoT Sensors with XR Campus Map application
Research Mentors: Brad Hollister, Ali Jalooli, and Bin Tang (Computer Science), and Horace Crogman (Physics)
- 1:15 – 1:25 p.m. Soham Patil**
Data Preservation in Robotic Sensor Networks: Covering Salesman Approach
Research Mentor: Bin Tang (Computer Science)
- 1:30 – 1:40 p.m. Kavita Monpara (via Zoom)**
Enhancing Financial Security: Implementation of a Credit Card Fraud Detection Model
Research Mentor: Alireza Izaddoost (Computer Science)
- 1:45 – 1:55 p.m. Irvin Bui (via Zoom)**
Privacy Awareness and Its Impact on Online Learning
Research Mentor: Mohammad Eyadat (Information Systems)

#23 Physical and Mathematical Sciences Undergraduate Poster II, February 15 - LSU Ballroom A & B

Afternoon Session: 1:00 – 2:30 p.m.

Yolanda McDow and Berenice Rojas

Polymers Made from Agricultural Waste: A Possible Alternative to Single Use Plastics
Research Mentor: Barbara Belmont (Chemistry and Biochemistry)

Emmanuel Zamitiz

Development of a crosslinked zwitterionic-based hydrogel as a vitreous substitute with anti-fouling properties
Research Mentor: Amine Laradji (Chemistry and Biochemistry)

Joanna Campos

Sustainability Initiative at the Disneyland Resort: Avengers Campus
Research Mentor: Parveen Chhetri (Earth Science)

Michelle Crouse, Fernando Garcia, and Rashad Hall

Studying the Dynamics of Imatinib-Interferon Treatment in Chronic Myeloid Leukemia
Research Mentor: Cynthia Sanchez Tapia (Math)

Nataly Mendoza, Christian Smith, and Kevin Morente

The World of Hidato Puzzles
Research Mentors: Jessalyn Bolkema, Carolyn Yarnall, and Sharon Lanaghan

Michael Sullivan

Analyzing Traffic and Accident Patterns of Los Angeles using ArcGIS
Research Mentor: Parveen Chhetri (Earth Science)

Aaron Malone

A Machine Learning Approach to the Weighted Traveling Salesman Problem
Research Mentor: Bin Tang (Computer Science)

Athena Tran and Andrea Cocjin

Olympic Recurve Analysis - Stabilizer Optimization
Research Mentors: John Price, Horace Crogman, and Harneet Grewal (Physics)

**#24 Behavioral, Social Sciences and Public Administration
Undergraduate Poster III, February 15 - LSU Ballroom A & B
Afternoon Session: 2:30 – 4:00 p.m.**

Alejandra Ruiz

*Ethnic Representation and Experiences of
Discrimination in High School Math: Effects on Latinx
Students' Math Attitudes and Achievement*
Research Mentor: Kara Kogachi (Child Development)

Francisca Nuñez

*Beheading cut marks as indicators of cultural
traditions and specialization*
Research Mentor: Tim McHale (Anthropology)

Zoe-Marie Johnson

*Media Consumption and Attitudes Towards Police in
the Post-Floyd Era*
Research Mentor: Sarah Britto (Criminal Justice
Admin)

Eileen Valencia

Creating a Dominguez Rancho Teaching Collection
Research Mentor: Ken Seligson (Anthropology)

German Vazquez

Perceptions of Friendship
Research Mentor: Ashley Membere (Psychology)

Diana Arceo

Wellness among College Students
Research Mentor: Kim Proctor (Psychology)

Arianna Peredia

*Examining the Validity of a Non-Invasive Biosensor
Device for Heart Rate Variability during Pregnancy*
Research Mentor: Irene Tung (Psychology)

**#25 Health, Nutrition, and Clinical Sciences Graduate Oral
February 15 - LSU Ballroom C
Evening Session: 5:30 – 6:45 p.m.**

5:30 – 5:40 p.m. Abigail Haury, Kate Duell, Yaremi Ontiveros, and Akimi Johnson

The Experiences of Female Stroke Survivors at a Community-Based Stroke Center
Research Mentor: Sheryl Ryan (Occupational Therapy)

5:45 – 5:55 p.m. Luke Waldschmitt, Gabriel Yabut, Bryan Ha, and Vanessa Rodriguez

*Is Business Booming? A Narrative Study of the Journey of Occupational Therapy Business
Owners*
Research Mentor: Sheryl Ryan (Occupational Therapy)

6:00 – 6:10 p.m. Sophie Davis, Margarita Romero, Christina Hittle, and Kayla Guerrero

Experiences of Gender Non-Conforming People with their Healthcare Practitioners
Research Mentor: Sheryl Ryan (Occupational Therapy)

6:15 – 6:25 p.m. Kyle Riley, Joanna Redelman, Alejandro Gutierrez, and Karen Arredondo

The Context of the Latino Healthcare Experience
Research Mentor: Sheryl Ryan (Occupational Therapy)

6:30 – 6:40 p.m. John W. Horton III

African American Language Spoken by Louisiana Migrants in Los Angeles
Research Mentor: Iara Mantenido (English)

#26 Education (Developmental) Graduate Oral

February 15 - LSU 324

Evening Session: 5:30 – 6:30 p.m.

5:30 – 5:40 p.m. **Julia Victoria**

College students in romantic relationships and academic performance.

Research Mentors: Suzy Lea Juarez (Psychology)

5:45 – 5:55 p.m. **Martha Xuncax**

Transfer Center Services: Understanding Students' Needs

Research Mentor: Margarita Landeros (School and College Counseling)

6:00 – 6:10 p.m. **Vick Garcia**

A High School Counselor Approach to Affirming College Attainment for Black and Latinx Young Males

Research Mentor: Margarita Landeros (School and College Counseling)

#27 Behavioral, Social Sciences and Public Administration

Graduate Poster, February 15 - LSU Ballroom A & B

Evening Session: 5:30 – 7:00 p.m.

Jesus Figueroa

Exploring the roles of gratitude and grit in the relationship between life event stressors and reports of depression

Research Mentor: Giacomo Bono (Psychology)

Belen V. Guillen and Denise Y. Aguiluz

Loneliness during pregnancy mediates the association between psychological intimate partner violence and postpartum anxiety among Black women

Research Mentor: Irene Tung (Psychology)

Sheena Adolphus, Melissa Hudson, and Anita Kapila-Ramirez

Is Alcohol Recovery Identity Predictive of Outcomes Among Help and Non-Help Seeking Heavy Drinkers?

Research Mentor: Kevin Montes (Psychology)

Patricia Fischer Morales

An Exploration of the Differences in Medicinal Cannabis Use Among Diverse Californian Communities

Research Mentor: Kristen Emory (Public Health and Health Sciences)

Karina Martinez, Nadine Brandy, Celeste Gonzalez, and Ferdous Bayangar

Los Angeles Unified School District Performance

Research Mentor: Rui Sun (Public Administration)

Zulema Pettway

The Perspectives of Siblings of Individuals with Developmental Disabilities

Research Mentor: Jenny Chiappe (Special Education)

Amrit Kafle

Reducing Road Emissions: Impact of a 35% Reduction in Car Use in Los Angeles

Research Mentor: Parveen Chhetri (Earth Science)

FRIDAY, FEBRUARY 16

#28 Humanities and Letters Undergraduate Oral II

February 16 - LSU 324

Morning Session: 10:00 – 11:30 a.m.

- 10:00 – 10:10 a.m.** **Florencia Bravo**
What Makes a Man: Exploring Male Stereotypes, Machismo, and Toxic Masculinity in Gabriel García Márquez's Novels
Research Mentor: Roderick Hernandez (English)
- 10:15 – 10:25 a.m.** **Karla Sales**
Exploring Bodies in Fantomina: An Analysis of Eliza Haywood and 18th-century Popular Culture
Research Mentor: Helen Oesterheld (English)
- 10:30 – 10:40 a.m.** **Tanner Way**
Ghosts of Remembrance: An Exploration of Time Space in 2046
Research Mentor: Roderick Hernandez (English)
- 10:45 – 10:55 a.m.** **Michael Gonzalez**
Exploring the Message: Weimar Republic's Ban on Anderes Als Die Andern Advocacy for Homosexual Relations
Research Mentor: Daniel Santana (History)
- 11:00 – 11:10 a.m.** **Donovan Wright**
Black Queer Activism in Los Angeles During the AIDS Epidemic
Research Mentor: Kerry Shannon (History)
- 11:15 – 11:25 a.m.** **Julianna Ortega**
Food Access and Cultural Knowledge Through Chicana Epistemology
Research Mentor: Alfredo Carlos (Labor Studies)

#29 Health, Nutrition, and Clinical Sciences

Undergraduate Oral, February 16 - LSU Ballroom C

Morning Session: 10:00 – 11:15 a.m.

- 10:00 – 10:10 a.m.** **Joshua Quiran**
Efficacy Assessment of SF001, a Third-Generation Polyene Antifungal, in the Immunosuppressed Mouse Model of Invasive Pulmonary Aspergillosis
Research Mentor: Erin McCauley (Chemistry & Biochemistry)
- 10:15 – 10:25 a.m.** **Jenica Cezar**
Bone Marrow Stroma Modulates Expression of Immune Checkpoints on Natural Killer Cells and Multiple Myeloma Cells
Research Mentor: Jahan Abdi (Clinical Science)
- 10:30 – 10:40 a.m.** **Jill Pascual**
The Effects of Immune Checkpoint Inhibitors on Killing Activity of Natural Killer Cells Against Multiple Myeloma Cells
Research Mentor: Jahan Abdi (Clinical Science)

- 10:45 – 10:55 a.m.** **Aysa-Monae Collins**
Unveiling the Disparity: Exploring Infant Mortality Among Non-Hispanic Black Women in Relation to Prenatal Care, Diabetes, and Obesity
 Research Mentor: Enrique Ortega (Associate Dean, CHHSN)
- 11:00 – 11:10 a.m.** **Duong Phuong Thao Ho (via Zoom)**
Inhibition L-cystine Stone by Antifreeze Protein
 Research Mentor: Sen Wang (Chemistry and Biochemistry)

#30 Education (Developmental) Graduate Oral II

February 16 - LSU 326

Morning Session: 10:00 – 12:00 p.m.

- 10:00 – 10:10 a.m.** **Joseph Pacheco**
Meeting Students Where They Are: Career Needs Among Students at Long Beach City College
 Research Mentor: Margarita Landeros (School and College Counseling)
- 10:15 – 10:25 a.m.** **Gladys Cruz**
Equitable Dual Enrollment Recruitment: Fostering Inclusive Pathways
 Research Mentor: Margarita Landeros (School and College Counseling)
- 10:30 – 10:40 a.m.** **Maricielo Portugal Alvarez**
Evaluating the Effectiveness and Visibility of Services for Undocumented Students
 Research Mentor: Margarita Landeros (School and College Counseling)
- 10:45 – 10:55 a.m.** **Karen Ortiz**
Importance of Equipping California Community College Counselors to Support Formerly Incarcerated Students
 Research Mentor: Margarita Landeros (School and College Counseling)
- 11:00 – 11:10 a.m.** **Susana Barrera**
Understanding Barriers Faced by Students on Academic Probation, Progress Probation, and Dismissal at a California Community College
 Research Mentor: Margarita Landeros (School and College Counseling)
- 11:15 – 11:25 a.m.** **Nadine Perez**
Enhancing Student Success: An Evaluation of the 7-Step Matriculation Process
 Research Mentor: Margarita Landeros (School and College Counseling)
- 11:30 – 11:40 a.m.** **Joanna Echeverria-Martinez**
Bolstering Support and a Sense of Belonging for EOP&S/CARE Students
 Research Mentor: Margarita Landeros (School and College Counseling)

#31 Engineering and Computer Science Graduate Poster

February 16 - LSU Ballroom A & B

Morning Session: 10:00 – 11:30 a.m.

Mohammad Mustafa

A Federated Based Privacy Preservation and Malware Detection

Research Mentor: Alireza Izaddoost (Computer Science)

Abishag Hernandez

The Detection of Deepfakes

Research Mentor: Alireza Izaddoost (Computer Science)

Hardipinder Singh Ubhi

GRC for small businesses

Research Mentor: Alireza Izaddoost (Computer Science)

Christopher Gonzalez

Analyzing the Convergence of Multi-Agent Reinforcement Learning for Budget-Constrained Prize-Collecting Travelling Salesman Problem using ILP

Research Mentor: Bin Tang (Computer Science)

#32 Behavioral, Social Sciences and Public Administration

Undergraduate Poster IV, February 16 - LSU Ballroom A & B

Morning Session: 10:00 – 11:30 a.m.

Marcos Iniguez

Rehab or Tough on Crime? Support for Punishment and Rehabilitation Among Californians

Research Mentor: Sarah Britto (Criminal Justice Admin)

Kayla Leon Maldonado, Jesus Figueroa, Michelle Belmontes, and Marelin Marquez

The Roles of Stress and Social Support on Mental Health During the Pandemic

Research Mentor: Giacomo Bono (Psychology)

Celest Padilla

Navigating Borders: Assessing the Impact of the 100-Mile Border Zone on Migrant Mobility

Research Mentor: Diego Avalaas (Criminal Justice Admin)

Janet Garcia

Understanding First-time Community College Student Perspective in English-Transfer Courses

Research Mentor: Margarita Landeros (School and College Counseling)

Closing Reception Dance Performance

February 16, 1:00 p.m. – LSU Ballroom C

Mosaic Dance Company will be performing *Chemistry*

Choreographed by Tia-Nischelle Turner

Cast members: Angel Chavez, Angelina Garcia, Precious Jones, Anna Konstantinovskiy,

Jordan Lewis, Christopher Martin, Julia Truong, Tia-Nischelle Turner, Samuel Villarreal

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