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.

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 Schrager, 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 A Match Made

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 Chemistry

Choreographed by Tia-Nischelle Turner

Cast members: Angel Chavez, Angelina Garcia, Precious Jones, Anna Konstantinovsky, 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
  o If project has multiple presenters, the $100 will be divided among them.
Second Place in an Oral Session - Certificate
  o Awarded only if there are more than four participants in the session.
First Place in a Poster Session – Certificate & $50
  o If project has multiple presenters, the $50 will be divided among them.
Second Place in a Poster Session - Certificate
  o 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.
  o 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.
  o 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.
  o 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.
  o 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)

CBAPP (Dean Joseph Wen)
  CBAPP First Place Award
  CBAPP Second Place Award
  CBAPP Third Place Award

CNBS (Dean Philip LaPolt)
  Natural Sciences Award (poster or oral)
  Social Sciences Award (poster or oral)

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, Lara 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, Adriean Mancillas
Social Work  Paul DuongTran
Sociology  LaTanya Skiffer
Special Education  Jenny Chiappe
Workforce Integration Network  Krystal Rawls
# Judges and Moderators

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

<table>
<thead>
<tr>
<th>Cheyenne Cummings, Co-chair</th>
<th>Gillian Fischer</th>
<th>Lorna Schallig</th>
</tr>
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<tbody>
<tr>
<td>Ken Seligson, Co-chair</td>
<td>Brigitte Gonzalez-Rosales</td>
<td>Laura Serrano</td>
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<tr>
<td>Sheree Schrager, Dean</td>
<td>Imelda Hammes</td>
<td>Christian Smith</td>
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<td>Judy Aguirre</td>
<td>Dakota Hughes</td>
<td>Rowynn Spencer</td>
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<td>Tigress Briggs-Wroten</td>
<td>Akshay Kalsotra</td>
<td>Danny Tamayo</td>
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<tr>
<td>Nikya Bryant</td>
<td>Johnathan Mejia</td>
<td>Valencia Teems</td>
</tr>
<tr>
<td>Vanessa Cervantes</td>
<td>Chi Nguyen</td>
<td>Janet Trujillo</td>
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<tr>
<td>Aysa Monae Collins</td>
<td>Alyanna Paulino</td>
<td>Michelle Waiters Martinez</td>
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**SRC 2024 Planning Committee**

<table>
<thead>
<tr>
<th>Alfredo Carlos</th>
<th>Jess Marinaccio</th>
<th>Meghna Singhvi</th>
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</thead>
<tbody>
<tr>
<td>Alfredo Gonzalez</td>
<td>Jessica Federman</td>
<td>Miriam Hernandez</td>
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<tr>
<td>Annalyn Valdez Dadia</td>
<td>Kai Greene</td>
<td>Mojtaba Kamyab</td>
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<td>Ashley Membere</td>
<td>Kaitlyn Breiner</td>
<td>Nestor Garza</td>
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<td>Carolyn Oudiz</td>
<td>Kaylie Carbine</td>
<td>Roya Azizi</td>
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<td>Hui Li</td>
<td>Kerry Shannon</td>
<td>Sheryl Ryan</td>
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<td>Jahan Abdi</td>
<td>Maggie Landeros</td>
<td>William Lucas</td>
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<tr>
<td>Jen Stacy</td>
<td>Marisela Velázquez</td>
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</table>
# Wednesday Presentation Schedule

**February 14, 2024**

<table>
<thead>
<tr>
<th>Session</th>
<th>Discipline</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Welcome Reception and Keynote Address</strong></td>
<td>Live in-person and streamed <strong>via Zoom</strong></td>
<td>LSU Ballroom C</td>
</tr>
<tr>
<td># 1</td>
<td>Behavioral, Social Sciences and Public Administration Graduate Oral</td>
<td>LSU Ballroom C</td>
</tr>
<tr>
<td># 2</td>
<td>Behavioral, Social Sciences and Public Administration Undergraduate Oral I</td>
<td>LSU Ballroom C</td>
</tr>
<tr>
<td># 3</td>
<td>Biological and Agricultural Sciences Undergraduate Oral</td>
<td>LSU Ballroom C</td>
</tr>
<tr>
<td># 4</td>
<td>Physical and Mathematical Sciences Undergraduate Poster</td>
<td>LSU Ballroom A &amp; B</td>
</tr>
<tr>
<td># 5</td>
<td>Behavioral, Social Sciences and Public Administration Undergraduate Poster I</td>
<td>LSU Ballroom A &amp; B</td>
</tr>
<tr>
<td># 6</td>
<td>Education Graduate Oral</td>
<td>LSU Ballroom C</td>
</tr>
<tr>
<td># 7</td>
<td>Humanities and Letters Undergraduate Oral I</td>
<td>LSU Ballroom C</td>
</tr>
<tr>
<td># 8</td>
<td>Biological and Agricultural Sciences Undergraduate Poster I</td>
<td>LSU Ballroom A &amp; B</td>
</tr>
<tr>
<td># 9</td>
<td>Behavioral, Social Sciences and Public Administration Undergraduate Poster II</td>
<td>LSU Ballroom A &amp; B</td>
</tr>
<tr>
<td># 10</td>
<td>Developmental: Behavioral, Social Sciences, Education, and Business Graduate and Undergraduate Poster</td>
<td>LSU Ballroom A &amp; B</td>
</tr>
<tr>
<td># 11</td>
<td>Behavioral, Social Sciences and Public Administration Graduate Oral</td>
<td>LSU Ballroom C</td>
</tr>
<tr>
<td># 12</td>
<td>Physical and Mathematical Sciences Undergraduate Oral I</td>
<td>LSU Ballroom C</td>
</tr>
<tr>
<td># 13</td>
<td>Business and Economics Undergraduate Oral</td>
<td>LSU Ballroom C</td>
</tr>
<tr>
<td># 14</td>
<td>Biological and Agricultural Sciences Graduate Poster</td>
<td>LSU Ballroom A &amp; B</td>
</tr>
<tr>
<td># 15</td>
<td>Graduate Roundtable</td>
<td>LSU Ballroom C</td>
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# Thursday Presentation Schedule

**February 15, 2024**

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

## February 16, 2024

<table>
<thead>
<tr>
<th>Session</th>
<th>Discipline</th>
<th>Location</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td># 28</td>
<td>Humanities and Letters Undergraduate Oral II</td>
<td>LSU 324</td>
<td>10:00 a.m. – 11:30 a.m.</td>
</tr>
<tr>
<td># 29</td>
<td>Health, Nutrition, and Clinical Sciences Undergraduate Oral</td>
<td>LSU Ballroom C</td>
<td>10:00 – 11:15 a.m.</td>
</tr>
<tr>
<td># 30</td>
<td>Education (Developmental) Graduate Oral II</td>
<td>LSU 326</td>
<td>10:00 – 11:45 a.m.</td>
</tr>
<tr>
<td>#31</td>
<td>Engineering and Computer Science Graduate Poster</td>
<td>LSU Ballroom A &amp; B</td>
<td>10:00 – 11:30 a.m.</td>
</tr>
<tr>
<td>#32</td>
<td>Behavioral, Social Sciences and Public Administration Undergraduate Poster IV</td>
<td>LSU Ballroom A &amp; B</td>
<td>10:00 – 11:30 a.m.</td>
</tr>
</tbody>
</table>

### Closing Reception and Awards Ceremony
Live in-person and streamed via Zoom
1:00 p.m. – 3:00 p.m.

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

<table>
<thead>
<tr>
<th>Event</th>
<th>Location</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome Reception, Dance Performance, and Keynote Address</td>
<td>LSU Ballroom C</td>
<td>Live in-person and streamed via Zoom Wednesday, Feb. 14th 8:30-10:30am</td>
</tr>
<tr>
<td>Closing Reception, Dance Performance, and Awards Ceremony</td>
<td>LSU Ballroom C</td>
<td>Live in-person and streamed via Zoom Friday, Feb. 16th 1:00 p.m. – 3:00 p.m.</td>
</tr>
</tbody>
</table>
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)

Alondra Vanegas
The Impact of Perceived Minority Status on Adolescents’ Positive Life Expectancies During the Transition to Adulthood
Research Mentor: Irene Tung (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)

Ana Castillo
It’s Complicated. Contraceptive Use on College Campuses: Attitudes and Beliefs on Safe Sex
Research Mentor: Ken Seligson (Anthropology)

Taylor Galuppi
On the Presence of Parental Education: A Literature Review
Research Mentor: William Lucas (Anthropology)

Areli Barrera-Ramírez
La Danza del Tecuani
Research Mentor: Miguel Domínguez (Modern Languages)

Loren Barbosa
Emergency Preparedness in Under-Resourced Communities
Research Mentor: Wenli Jen (Public Health and Health Sciences)

#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)
<table>
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<tr>
<th>Time</th>
<th>Title</th>
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| 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) |
| 2:15 – 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**  
*IncRNA-CELF2 RNA Protein Binding in Multiple Myeloma Promotes Apoptosis*  
Research Mentor: Barbara Belmont (Chemistry and Biochemistry)

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**#9 Behavioral, Social Sciences and Public Administration**

**Undergraduate Poster II, February 14 — LSU Ballroom A & B**

**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 Banuelos 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  
*Analyzing the importance of ydhI during Long Term Stationary Phase in Escherichia coli*  
Research Mentors: Karin Kram (Biology)

Ricardo Aguayo  
*Spatial Analysis of Solar Energy Distribution in Los Angeles County’s Disadvantaged Communities*  
Research Mentor: Parveen Chhetri (Earth Science)

Alex Cavazos  
*Campus Canopies in Crisis? Tracking Tree Distribution Changes at CSUDH*  
Research Mentor: Parveen Chhetri (Earth Science)

Jeffrey Herschler  
*Breathing Easy in Academic Environments: Evaluating CO2 Levels Across CSUDH*  
Research Mentor: Parveen Chhetri (Earth Science)

Sarah Reyes-Vizcarra  
*Boron in Wastewater: Unveiling Its Environmental Impact*  
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 $K^0_{p}\rightarrow K^0_{Sp}$ process and $K^0_{Sp}$ 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)

Bianna 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 Jedadiah 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.  
**Kavitaben 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 Mantenuto (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)

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#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.**

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Research Mentor</th>
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<tr>
<td>10:00 – 10:10</td>
<td>Florencia Bravo, <em>What Makes a Man: Exploring Male Stereotypes, Machismo, and Toxic Masculinity in Gabriel García Márquez’s Novels</em></td>
<td>Roderick Hernandez (English)</td>
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<td>10:15 – 10:25</td>
<td>Karla Sales, <em>Exploring Bodies in Fantomina: An Analysis of Eliza Haywood and 18th-century Popular Culture</em></td>
<td>Helen Oesterheld (English)</td>
</tr>
<tr>
<td>10:30 – 10:40</td>
<td>Tanner Way, <em>Ghosts of Remembrance: An Exploration of Time Space in 2046</em></td>
<td>Roderick Hernandez (English)</td>
</tr>
<tr>
<td>11:00 – 11:10</td>
<td>Donovan Wright, <em>Black Queer Activism in Los Angeles During the AIDS Epidemic</em></td>
<td>Kerry Shannon (History)</td>
</tr>
</tbody>
</table>

#### #29 Health, Nutrition, and Clinical Sciences

**Undergraduate Oral, February 16 - LSU Ballroom C**

**Morning Session: 10:00 – 11:15 a.m.**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Research Mentor</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 – 10:10</td>
<td>Joshua Quiran, <em>Efficacy Assessment of SF001, a Third-Generation Polyene Antifungal, in the Imunosuppressed Mouse Model of Invasive Pulmonary Aspergillosis</em></td>
<td>Erin McCauley (Chemistry &amp; Biochemistry)</td>
</tr>
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<td>10:15 – 10:25</td>
<td>Jenica Cezar, <em>Bone Marrow Stroma Modulates Expression of Immune Checkpoints on Natural Killer Cells and Multiple Myeloma Cells</em></td>
<td>Jahan Abdi (Clinical Science)</td>
</tr>
<tr>
<td>10:30 – 10:40</td>
<td>Jill Pascual, <em>The Effects of Immune Checkpoint Inhibitors on Killing Activity of Natural Killer Cells Against Multiple Myeloma Cells</em></td>
<td>Jahan Abdi (Clinical Science)</td>
</tr>
</tbody>
</table>
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 Echeverría-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 Avalaos (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 Konstantinovsky, Jordan Lewis, Christopher Martin, Julia Truong, Tia-Nischelle Turner, Samuel Villarreal
Thank you to our generous sponsors!

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