

CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS



18th Annual

# **STUDENT RESEARCH** CONFERENCE

Feb 22 - 24, 2023  
Loker Student Union

# Greetings from President Parham

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Welcome to the 18th Annual Student Research Conference at California State University, Dominguez Hills. Asking questions that lead to greater insights, using various methodologies that facilitate the testing of hypotheses, and interrogating ideas that contribute to more deep-structure analysis and understanding are the hallmark of a robust system of inquiry. Consequently, over the course of these three days, we celebrate the inquisitiveness, determination, creativity, and brilliance of our students. The annual Student Research Conference has come to be a highlight of our annual academic calendar, showcasing the amazing research completed by undergraduate and graduate students from across our entire campus community.

The students presenting at the 2023 Student Research Conference have persevered through three years of pandemic conditions to be where they are today, making their mentors, peers, friends, family, and the broader CSUDH community very proud. From developing research questions and hypotheses, to collecting data, analyzing those data, and drawing conclusions, our student researchers have truly demonstrated what it means to be resilient, multi-talented Toro scholars.

We know that research is a collaborative process and thus I want to thank not only our student researchers for their impressive achievements, but the mentors, colleagues, family, and friends who have contributed to the various projects being presented here this week. The Toro Community is thriving because we go far together, and I cannot thank you all enough for supporting our mission.

I welcome everyone within the Toro Nation and broader South Bay communities to join us this week in celebrating our student scholars at Student Research Conference 2023.

A handwritten signature of Thomas A. Parham in blue ink. The signature is stylized and cursive, written in a professional manner.

Thomas A. Parham, Ph.D.  
President

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# Welcome

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On behalf of the SRC Planning Committee, we are very happy to welcome everyone to the 18th Annual Student Research Conference at California State University, Dominguez Hills! We are so excited for our student researchers who get to share the results of all of their hard work this week, and for the mentors, family, and friends, who join with us in celebrating our Toro scholars.

Research can be grueling even under normal conditions, but the students presenting this year have persisted through three years of pandemic conditions, which is all the more impressive. SRC celebrates the diligence, resilience, and ingenuity of our student scholars, as well as the support provided by the entire Toro community. We want to thank 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. Mónica Lomelí, (Human Services Administrator, LA County Commission on Human Relations) as our distinguished keynote speaker. Dr. Lomelí 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, and roundtable workshop formats, both in-person and online. The conference will conclude with an Awards Ceremony and Closing Reception at 1pm on Friday.

In addition to providing a platform for current student researchers to showcase their projects, SRC is 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 Gilead Sciences and Shell, and the dedicated efforts of research mentors, volunteer judges, and conference staff. We want to thank all the students, faculty, and staff volunteers who helped make this event possible. 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, University Ceremonies and Events, Loker Student Union, and the members of the Student Research Conference Planning Committee. We hope everyone enjoys Student Research Conference 2023!

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

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**Dr. Mónica Lomelí**

Human Services Administrator

LA County Commission on Human Relations

Dr. Lomelí leads the Intergroup Relations First Response Team and is responsible for responding to emerging human relations issues and cultural shifts within the County as well contributing to other priorities of the Commission. In the area of hate crime, Dr. Lomeli serves as the hate crime database manager overseeing the collection and analysis of hate crime

reports from law enforcement, community-based organizations, school districts, and universities and colleges. This data is published in the County's annual Hate Crime Report. In the area of policing, Dr. Lomeli has led efforts in local Sheriff accountability and with research partners to analyze disparities in suburban police department arrest data. She was lead staff author in developing a best practices report for law enforcement in their hate crime outreach and response with community and author of the Commission motion to replace Columbus Day with Indigenous Peoples Day in LA County.

Dr. Lomeli is a public sociologist who was inspired by her students' questions of "what can we do?" to pursue a career in the public sector where she could ameliorate social problems and improve intergroup relations in LA County. In her dissertation, *White Nostalgic Redevelopment: Race, Class, and Gentrification in Downtown Los Angeles*, she interviewed and built relationships with old-time Latina/o business owners, indigenous Skid Row residents, and newcomer loft residents, to improve intergroup relations. Dr. Lomeli has taught sociology college courses on Crime and Delinquency, Race and Ethnicity, and Gender.

Dr. Lomeli holds a Ph.D. with an emphasis in Urban Sociology and Racial and Ethnic Relations and an M.A. in Sociology from the University of California, Santa Barbara. She obtained bachelors' degrees in Anthropology and Behavioral Science from California State University, Dominguez Hills. She is the daughter of Mexican immigrants from Zacatecas and was raised in South Central Los Angeles. She currently lives in the San Gabriel Valley and is an organic gardener who grows much of her own food, and cooks and eats and composts, too.

# Conference Schedule

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## Wednesday – February 22, 2023

### Loker Student Union

|                        |  |
|------------------------|--|
| 8:30 – 9:00 a.m.       | Registration   |
| 9:00 a.m. – 12:15 p.m. | Morning Sessions   |
| 12:00 – 12:50 p.m.     | IRB Drop-In Session for Students and Research Mentors                                  |
| 1:00 – 4:15 p.m.       | Afternoon Sessions and Student Scholarship/Research Program Tabling                    |
| 5:00 – 6:30 p.m.       | Opening Reception and Keynote Address ( <a href="#">Zoom link for remote viewing</a> ) |
| 5:00 – 5:30 p.m.       | Arrival  |
| 5:30 – 5:35 p.m.       | Welcome Message – Provost Michael E. Spagna, Dean Sheree Schrager                      |
| 5:35 – 6:00 p.m.       | Keynote Speaker - Dr. Mónica Lomelí  |
| 6:00 – 6:30 p.m.       | Q & A  |
| 6:45 – 8:15 p.m.       | Evening Sessions   |

## Thursday – February 23, 2023

### Loker Student Union

|                         |   |
|-------------------------|---|
| 8:30 – 9:00 a.m.        | Registration  |
| 9:00 a.m. – 12:15 p.m.  | Morning Sessions and Student Scholarship/Research Program Tabling |
| 11:30 a.m. – 12:30 p.m. | Research Mentor Panel   |
| 1:00 – 4:15 p.m.        | Afternoon Sessions  |
| 5:30 – 7:00 p.m.        | Evening Sessions  |

## Friday – February 24, 2023

### Loker Student Union

|                         |   |
|-------------------------|---|
| 8:30 – 9:00 a.m.        | Registration  |
| 9:00 a.m. – 11:00 a.m.  | Morning Sessions  |
| 11:00 a.m. – 12:00 p.m. | Research Mentor Panel (Online) ( <a href="#">Zoom link for remote viewing</a> )             |
| 12:30 – 3:00 p.m.       | Reception and Awards Ceremony – Ballroom C ( <a href="#">Zoom link for remote viewing</a> ) |
| 1:00 – 1:30 p.m.        | Announcing First and Second Place Session Winners   |

# Research Mentors

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|                                      |  |
|--------------------------------------|--|
| <b>Anthropology</b>                  | Sarah Lacy, Jerry Moore, Ken Seligson, Sarah Taylor  |
| <b>Art and Design</b>                | Kirstin L. Ellsworth, Devon Tsuno  |
| <b>Biology</b>                       | Karin Kram-Glassman, Samantha Leigh, Charlene McCord, Shehla Pervin, Sonal Singhal, Eillen Tecle, Kathryn Theiss, Justin M. Valliere, Fang Wang  |
| <b>Business Administration</b>       | Nancy Deng, Jian-Yu Ke, Mahmoud Salari, Myron Sheu   |
| <b>Chemistry and Biochemistry</b>    | Barbara Belmont, Erin McCauley, Kari Pederson, Sen Wang, and Ashraf Ibrahim and Teclegiorgis Gebremariam (UCLA)  |
| <b>Chicana and Chicano Studies</b>   | Alfredo Gonzalez   |
| <b>Computer Science</b>              | Alireza Izaddoost, Bin Tang  |
| <b>Earth Science and Geography</b>   | Parveen Chhetri, Cheyenne Cummings, Tianjun Luke Lu  |
| <b>Education</b>                     | Nallely Arteaga, Stephanie Cariaga, Edward Curammeng, Margarita Landeros   |
| <b>English</b>                       | Mara Lee Grayson, Roderick Hernandez, Kimberly Huth, Iara Mantenuto, Helen Oesterheld, David Sherman   |
| <b>Health Sciences</b>               | Enrique Ortega   |
| <b>History</b>                       | Kate Fawver, Andrea Johnson, Kerry Shannon   |
| <b>Interdisciplinary Studies</b>     | Karen Bowdre   |
| <b>Management and Marketing</b>      | Thomas Norman, Bing Xu   |
| <b>Mathematics</b>                   | Jessalyn Bolkema, Alex Chen, Sharon Lanaghan, Wai Yan Pong, Yi Wang, Carolyn Yarnall   |
| <b>Negotiation</b>                   | Nancy Erbe   |
| <b>Nursing</b>                       | Terri Ares, Sally Mahmoud, Samira Moughrabi  |
| <b>Occupational Therapy</b>          | Claudia Peyton, Sheryl Ryan, Julie Werner  |
| <b>Orthotics and Prosthetics</b>     | Mojtaba Kamyab, Jennifer Lučarević, Mark Muller  |
| <b>Physics</b>                       | Horace Crogman, Lamar Glover, John Price   |
| <b>Psychology</b>                    | Erin Barrett, Tatiana Basañez, Giacomo Bono, Kaylie Carbine, Steven Frieze, Maria Hurtado-Ortiz Ashley Membere, Erin Merz, Kevin Montes, Monique Turner, Silvia Santos, Carl Sneed, Irene Tung, Tara Victor, Philip Vieira |
| <b>Public Administration</b>         | Sarah Britto, Roger Qiyuan Jin, Fynnwin Prager, Saahir Shafi, Rui Sun  |
| <b>Social Work</b>                   | Adriana Aldana, Andridia Mapson  |
| <b>Sociology</b>                     | Claudia Diera, Kelin Li, Joanna Perez, Katy Pinto, Carl Sneed  |
| <b>Toro Dreamers Success Center</b>  | Ana Barragan   |
| <b>Workforce Integration Network</b> | Krystal Rawls  |

## Judges and Moderators

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|                   |                         |                           |
|-------------------|-------------------------|---------------------------|
| Jahan Abdi        | Christopher Hallenbrook | Ha Nguyen                 |
| Iyad Afalqa       | Joshua Jeffers          | Thomas Norman             |
| Judith Aguirre    | Qiyuan Roger Jin        | Carolyn Oudiz             |
| JoAnn Aragon      | Anupama Joshi           | Ronisha Peters            |
| Tranitra Avery    | Anna Kelner             | Thomas Philo              |
| Roya Azizi        | Yeaji Kim               | Bobbie Porter             |
| Tatiana Basañez   | Karin E. Kram           | John Price                |
| Leeanne Bergeron  | Vera Kunte              | Kim Proctor               |
| Gurmohan Bevli    | Sarah Lacy              | Harun Rashid              |
| Sarah Britto      | Margarita Landeros      | Kresh Reil                |
| Abbie Bryant      | Hannah Lee              | Sabrina Sanders           |
| Carolyn Caffrey   | Samantha Leigh          | Laura Serrano             |
| Kisha Calbert     | Angélica López Fraire   | Sonal Singhal             |
| Marisol Cardenas  | Tianjun Luke Lu         | David Smith               |
| Helen Chun        | Jenn Macy               | Thomas Taylor             |
| Kelley Dawdy      | Marlon Marrache         | Christina Toolan          |
| Begona De Velasco | Erin McCauley           | Irene Tung                |
| Prakash Dheeriya  | Charlene McCord         | Sarah Turkel              |
| Paul DuongTran    | Stephen McFarland       | Annalyn Valdez-Dadia      |
| Sherine El Hag    | Terry McGlynn           | Justin Valliere           |
| Paul Fornelli     | Amalia Medina Castañeda | Marisela Velazquez        |
| Alyse Freeman     | Nancy Melucci           | Michelle Waiters-Martinez |
| Steven Frieze     | Ashley Membere          | Sen Wang                  |
| Nestor Garza      | Meredith Caliman        | Melissa Williams          |
| Gabriela Gonzalez | Jerry Moore             | Xun (Peter) Xu            |
| Kai Greene        | Samira Moughrabi        | Scarlett Zamora           |
| Michael Grimshaw  | Bree Nguyen             |                           |

## Event Organizers

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|                             |                   |                           |
|-----------------------------|-------------------|---------------------------|
| Cheyenne Cummings, Co-chair | Vanessa Cervantes | Jazlyn Sanchez            |
| Ken Seligson, Co-chair      | Gillian Fischer   | Laura Serrano             |
| Sheree Schrager, GSR Dean   | Imelda Hammes     | David Smith               |
| Judy Aguirre                | Dakota Hughes     | Danny Tamayo              |
| Denise Aguiluz              | Akshay Kalsotra   | Valencia Teems            |
| Amanda Brashear             | Gabriela Montes   | Michelle Waiters-Martinez |
| Tigress Briggs-Wroten       | Chi Nguyen        | Valerie Whittington       |
| Kimberly Campos             | Aliza Potter      |                           |

## SRC 2023 Planning Committee

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|                    |                           |                      |
|--------------------|---------------------------|----------------------|
| Erin Barrett       | Steven Frieze             | Kari Pederson        |
| Tatiana Basañez    | Gabriela Gonzalez         | Kim Proctor          |
| Logan Baughman III | Miriam Hernandez Martinez | Krystal Rawls        |
| Kaitlyn Breiner    | Wafa Khasawneh            | Sheryl Ryan          |
| Kaylie Carbine     | Yeaji Kim                 | Ken Seligson         |
| Gioella Chaparro   | Kara Kogachi              | Kerry Shannon        |
| Jenny Chiappe      | Sarah Lacy                | Sonal Singhal        |
| Cheyenne Cummings  | Juan Leon                 | Sarah Turkel         |
| Susan Einbinder    | Swati Mehta               | Annalyn Valdez Dadia |
| Sherine El Hag     | Ashley Membere            | Justin Valliere      |
| Paul Fornelli      | Carolyn Oudiz             | Marisela Velazquez   |



# Wednesday Presentation Schedule

February 22, 2023

| Session  | Discipline  | Location                                      |
|--|---|---|
| # 1  | Physical and Mathematical Sciences<br>Graduate Oral   | LSU 324<br>9:00 – 10:30 a.m.                  |
| # 2  | Behavioral and Social Sciences<br>Undergraduate Oral  | LSU 326<br>9:00 – 10:30 a.m.                  |
| # 3  | Physical and Biological Sciences<br>Graduate Poster   | LSU Ballroom A & B<br>9:00 – 10:30 a.m.       |
| # 4  | Behavioral & Social Sciences, & Business<br>Graduate Oral   | LSU Ballroom C<br>10:45 a.m. – 12:15 p.m.     |
| # 5  | The Legacies of the Japanese Empire<br>Undergraduate Symposium  | LSU 324<br>10:45 a.m. – 12:15 p.m.            |
| # 6  | Behavioral & Social Sciences, Humanities, & Education<br>Undergraduate Poster                                 | LSU Ballroom A & B<br>10:45 a.m. – 12:15 p.m. |
| <b>IRB Drop-in Information Session for Students and Research Mentors</b>                             |   | LSU 326<br>12:00 – 12:50 p.m.                 |
| # 7  | Education and Humanities<br>Graduate Oral   | LSU 324<br>1:00 – 2:30 p.m.                   |
| #8   | Biological and Health Sciences<br>Undergraduate Oral  | LSU 326<br>1:00 – 2:30 p.m.                   |
| #9   | Biological Sciences I<br>Undergraduate Poster   | LSU Ballroom A & B<br>1:00 – 2:30 p.m.        |
| #10  | Behavioral & Computer Science, & Business<br>ONLINE Undergraduate Oral <a href="#">Zoom Registration Link</a> | LSU 326 (Livestream)<br>2:45 – 4:15 p.m.      |
| #11  | Business, Education, Humanities, & Health Science<br>Developmental Poster Session I                           | LSU Ballroom A & B<br>2:45 – 4:15 p.m.        |
| <b>Welcome Reception and Keynote Address</b><br>Live in-person and streamed <a href="#">via Zoom</a> |   | LSU Ballroom C                                |
| #12  | Health, Nutrition, and Clinical Science I<br>Graduate Oral  | LSU Ballroom C<br>6:45 – 8:15 p.m.            |
| #13  | Physical, Mathematical, and Biological Sciences<br>Graduate Oral  | LSU 324<br>6:45 – 8:15 p.m.                   |
| #14  | Behavioral & Social Sciences, and Education<br>Graduate Poster  | LSU Ballroom A & B<br>6:45 – 8:15 p.m.        |
| #15  | P <sup>2</sup> Lab: Positive Perspectives in Research<br>Developmental Session                                | LSU 326<br>6:45 – 8:15 p.m.                   |
| #16  | Undergraduate Roundtable I  | LSU 322<br>6:45 – 8:15 p.m.                   |

# Thursday Presentation Schedule

**February 23, 2023**

| Session | Discipline  | Location                                  |
|---------|---|---|
| # 17    | Physical and Mathematical Sciences<br>Undergraduate Oral  | LSU 326<br>9:00 – 10:30 a.m.              |
| # 18    | Biological Sciences II<br>Undergraduate Poster  | LSU Ballroom A & B<br>9:00 – 10:30 a.m.   |
| # 19    | Health Sciences, Business, and Education<br>ONLINE Graduate Oral <a href="#">Zoom Registration Link</a>     | LSU 324 (Livestream)<br>9:00 – 10:30 a.m. |
|         | <b>Research Mentor Panel I</b> – Research mentors will discuss their research experiences and share advice. | LSU Ballroom C<br>11:30 a.m. – 12:30 p.m. |
| # 20    | Health, Nutrition, and Clinical Science II<br>Graduate Oral   | LSU Ballroom C<br>1:00 – 2:30 p.m.        |
| # 21    | Health, Nutrition, and Clinical Science<br>Undergraduate Poster   | LSU Ballroom A & B<br>1:00 – 2:30 p.m.    |
| # 22    | Marine Natural Products: Medicines from the Sea<br>Undergraduate Symposium                                  | LSU 324<br>1:00 – 2:30 p.m.               |
| # 23    | Behavioral, Social, and Health Sciences<br>Undergraduate Poster   | LSU Ballroom A & B<br>2:45 – 4:15 p.m.    |
| # 24    | Physical, Mathematical, and Computer Sciences<br>Undergraduate Poster                                       | LSU Ballroom A & B<br>5:30 – 7:00 p.m.    |
| # 25    | Behavioral and Social Sciences<br>Developmental Poster  | LSU Ballroom A&B<br>5:30 – 7:00 p.m.      |
| # 26    | Health, Nutrition, and Clinical Science III<br>Graduate Oral  | LSU Ballroom C<br>5:30 – 7:00 p.m.        |
| # 27    | Behavioral Sciences, Arts, & Business<br>Undergraduate Oral   | LSU 326<br>5:30 – 7:00 p.m.               |
| # 28    | Education and Computer Science<br>Developmental Oral  | LSU 324<br>5:30 – 7:00 p.m.               |
| # 29    | Graduate Roundtable   | LSU 322<br>5:30 – 7:00 p.m.               |

# Friday Presentation Schedule

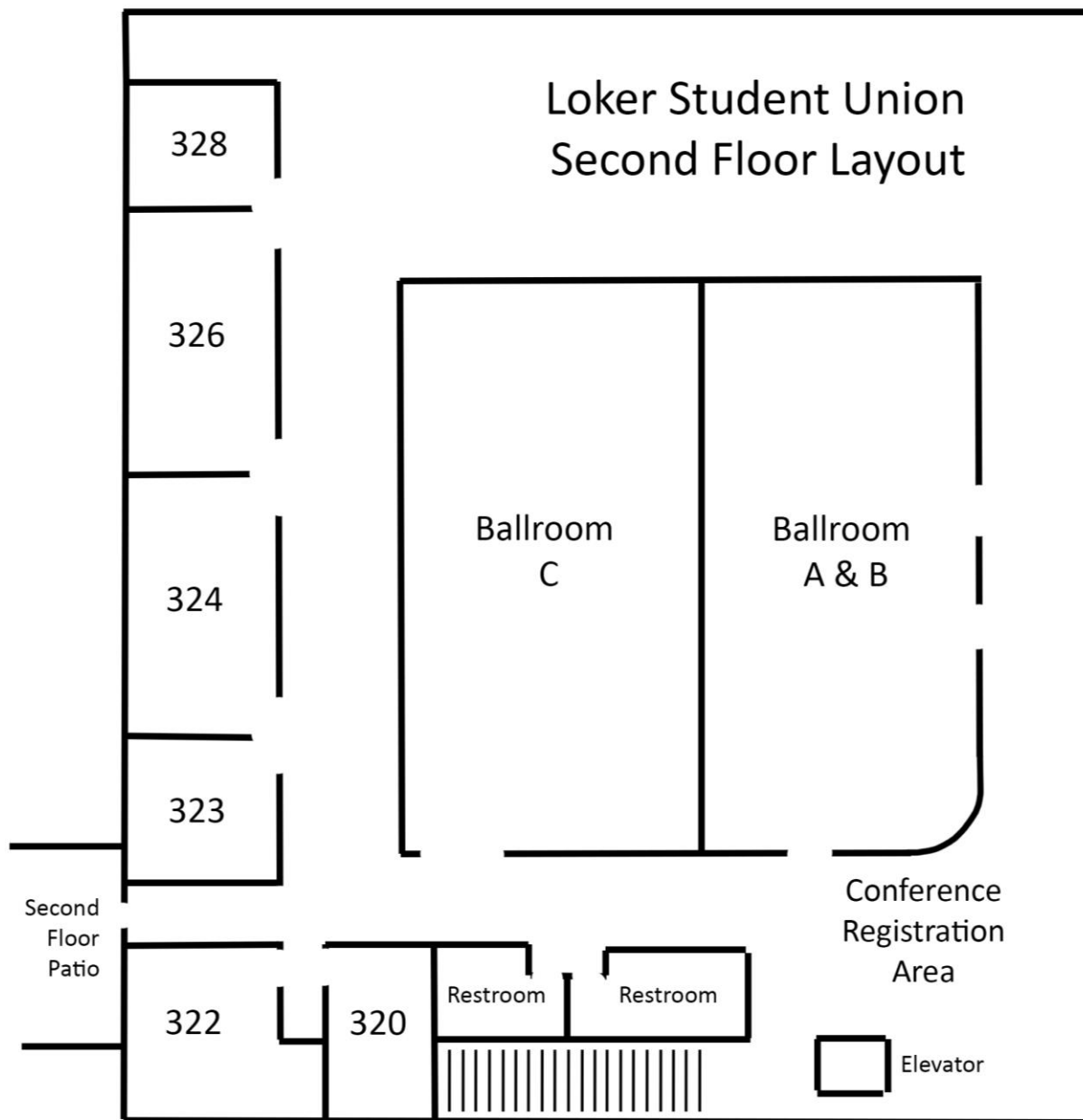
**February 24, 2023**

| Session  | Discipline   | Location   |
|--|--|--|
| # 30   | Health, Nutrition, and Clinical Science<br>Graduate Poster | LSU Ballroom A & B<br>9:00 – 10:30 a.m.                |
| # 31   | Behavioral and Social Sciences<br>Graduate Oral            | LSU 324<br>9:00 – 10:30 a.m.                           |
| # 32   | Arts and Humanities<br>Undergraduate Oral                  | LSU 326<br>9:00 – 10:30 a.m.                           |
| # 33   | Undergraduate Roundtable II                                | LSU 322<br>9:00 – 10:30 a.m.                           |
| <b>Research Mentor Panel II</b> – Research mentors will discuss their research experiences and share advice.<br><a href="#">Zoom Registration Link</a> |  | LSU Ballroom C (Livestream)<br>11:00 a.m. – 12:00 p.m. |
| <b>Closing Reception and Awards Ceremony</b><br>Live in-person and streamed <a href="#">via Zoom</a>   |  | LSU Ballroom C<br>12:30 p.m. – 3:00 p.m.               |

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

|  |  |
|--|--|
| <b>Welcome Reception and Keynote Address</b><br>Live in-person and streamed <a href="#">via Zoom</a>   | LSU Ballroom C   |
| <b>IRB Drop-in Information Session for Students and Research Mentors</b>   | LSU 326<br>12:00 – 12:50 p.m.                          |
| <b>Research Mentor Panel I</b> – Research mentors will discuss their research experiences and share advice.  | LSU Ballroom C<br>11:30 a.m. – 12:30 p.m.              |
| <b>Research Mentor Panel II</b> – Research mentors will discuss their research experiences and share advice.<br><a href="#">Zoom Registration Link</a> | LSU Ballroom C (Livestream)<br>11:00 a.m. – 12:00 p.m. |
| <b>Closing Reception and Awards Ceremony</b><br>Live in-person and streamed <a href="#">via Zoom</a>   | LSU Ballroom C<br>12:30 p.m. – 3:00 p.m.               |

**SRC 2023 will be following the Loker Student Union Covid-19 protocols.  
Face masks are not required but are strongly encouraged.**



## Student Research Conference 2023 Map

# WEDNESDAY, FEBRUARY 22

## #1 Physical and Mathematical Sciences Grad Oral

February 22 — LSU 324

Morning Session: 9:00 – 10:30 a.m.

9:00 – 9:10 a.m. **Kimberly Campos**

*Assessing Air Pollution Exposure of Historically Marginalized Communities in South Los Angeles Through a Bicycle Mobile Monitoring Campaign*  
Research Mentor: Tianjun Lu (Earth Science)

9:15 – 9:25 a.m. **David Saldana**

*Dendrochronological Investigations Utilizing Jeffrey Pine in the San Jacinto Mountains*  
Research Mentors: Justin Valliere (Biology), Parveen Chhetri (Earth Science)

9:30 – 9:40 a.m. **Azure Fisher**

*The Environmental and Geospatial Injustice of Freight Truck-Related Pollutants in South Los Angeles County*  
Research Mentor: Tianjun Lu (Earth Science)

9:45 – 9:55 a.m. **Elizabeth Hernandez, Michael Wood, Christopher Rojas, and Joanna Campos**

*CSUDH's Zero Waste Efforts and Capabilities*  
Research Mentor: Parveen Chhetri (Earth Science)

## #2 Behavioral and Social Sciences Undergraduate Oral

February 22 — LSU 326

Morning Session: 9:00 – 10:30 a.m.

9:00 – 9:10 a.m. **La Porsche Jackson**

*1992 Rodney King Riots vs. 2020 George Floyd*  
Research Mentor: Karen Bowdre (Interdisciplinary Studies)

9:15 – 9:25 a.m. **Juana Hernandez Jaime**

*Analyzing the Impact of Social Networks on Alcohol Recovery Identity*  
Research Mentor: Kevin Montes (Psychology)

9:30 – 9:40 a.m. **Ellie Zelaya**

*Over Tourism and Under Tourism: How Social Media Affects Where We Travel*  
Research Mentor: Sarah Taylor (Anthropology)

9:45 – 9:55 a.m. **Josahandi Cisneros**

*Higher Education and the Automation of Inequality*  
Research Mentor: Katy Pinto (Sociology)



## #3 Physical and Biological Sciences Graduate Poster

February 22 — LSU Ballroom A & B

Morning Session: 9:00 – 10:30 a.m.

**Paul Dinh**

*The Effects of Fragment Size and Temperature on Coral Calcification Rates*

Research Mentor: Charlene McCord (Biology)

**Luis Lopez**

*Dietary Regulation of the Intracellular Pathogen Response in C. elegans*

Research Mentor: Eillen Tecle (Biology)

**Madison Medhat**

*Stormwater Drains and Oil Storage on the CSUDH Campus*

Research Mentor: Parveen Chhetri (Earth Science)

**Michael Wood, Elizabeth Hernandez, and**

**Christopher Rojas**

*Zero Waste Compliance and Capabilities on the CSUDH Campus*

Research Mentors: Parveen Chhetri and Cheyenne Cummings (Earth Science)

**Armando Garcia**

*Transportation Ecological Footprint Analysis of CSUDH*

Research Mentor: Parveen Chhetri (Earth Science)

## #4 Behavioral & Social Sciences, and Business,

## Economics, and Public Administration Grad Oral

February 22 — LSU Ballroom C

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

10:45 – 10:55 a.m.

**Fraissy Guijarro**

*Policing Public Schools*

Research Mentor: Qiyuan Roger Jin (Public Administration)

11:00 – 11:10 a.m.

**Caroline Cusolito, Laurel Brislin, Araz Espinoza, and Deniece Caraballo**

*OT in the Trees: Perceptions of Outdoor OT*

Research Mentor: Sheryl Ryan (OT)

11:15 – 11:25 a.m.

**Aina Ali, Paula Basto, Seth Almberg, and Iram Aziz**

*"A Powerful Form of Resistance": Mindfulness and Personal Relationships in the LGBTQ+ Population*

Research Mentor: Sheryl Ryan (OT)

11:30 – 11:40 a.m.

**Gautham Alampalli Amarnath**

*First-generation college students and IT career: From the Career Anchor Perspective*

Research Mentor: Nancy Deng (Information Systems)

11:45 – 11:55 a.m.

**Madeline McKinley, Sunny Kim, Noemi Magtoto, and Karen Lim**

*Swiping Right on the Spectrum: The Form, Function, and Meaning of Online Dating for Autistic Women*

Research Mentor: Sheryl Ryan (OT)

12:00 – 12:15 p.m.

**Gianna Martinez**

*ADHD and Educational Support*

Research Mentor: Roger Qiyuan Jin (Public Administration)

## #5 Symposium: The Legacies of the Japanese Empire

February 22 — LSU 324

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

Research Mentor: Kerry Shannon (History)

|                    |   |
|--------------------|---|
| 10:45 – 10:55 a.m. | <b>Priscilla Avitia</b><br><i>Japanese Women and their Roles in Shinto and Shrines in Post-World War II Japan</i> |
| 11:00 – 11:10 a.m. | <b>Francisco Sanchez</b><br><i>Pro Wrestling, Propaganda, and the Zainichi</i>                                    |
| 11:15 – 11:25 a.m. | <b>Gabriela Isidro</b><br><i>Japanese in Mexico: A Misunderstood History</i>                                      |
| 11:30 – 11:40 a.m. | <b>Sylvia Duvenary</b><br><i>Mobile Suit Gundam 0079 and Trauma</i>   |
| 11:45 – 11:55 a.m. | <b>Carlos Heredia-Pantoja</b><br><i>Japanese Assimilation Methods in Education: Colonial Korea 1905-1945</i>      |

## #6 Behavioral & Social Sciences, Humanities, & Education Undergraduate Poster

February 22 — LSU Ballroom A & B

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

**Kenneth Perez and Azure Fisher**

*Should State Land in Southern California be Allocated to Warehousing Goods or Housing People? Analyzing transportation, climate, and unintended consequences of supply chain solutions*

Research Mentors: Jian-yu Fisher Ke (Information Systems), Tianjun Lu (Earth Science), Mahmoud Salari (Economics), & Fynnwin Prager (Public Administration)

**Kenia Vidal, William Omenwu, & Stephanie Rauda**

*HIV-1 p17*

Research Mentor: Kari Pederson (Chem & Biochem)

**Alyssa Guerrero**

*Chinchorro Mummies: The Oldest Mummies in the World*

Research Mentor: Jerry Moore (Anthropology)

**Fredy Cruz Hernandez**

*The Future of the Los Angeles Metro Lines, and the Benefits to the Communities*

Research Mentor: Parveen Chhetri (Earth Science)

**Victoria Harris**

*Shakespeare's Romeo & Juliet in connection with Women's Domestic Art*

Research Mentor: Kimberly Huth (English)

**Yoana Esparza and Justin Sears**

*Journey Through Time in the South Bay: Analyzing the CSUDH Dominguez Rancho Archaeological Artifact Collection*

Research Mentor: Ken Seligson (Anthropology)

**Nazareo Gonzalez**

*Identification of Fungal Secondary Metabolites that Exhibit Antibiotic Activity Towards the Pathogen*

*Pseudomonas aeruginosa*

Research Mentor: Erin McCauley (Chem & Biochem)

**Edlyn Pacheco**

*Using Computer coding to Create Dynamic Object for improve Physics learning In Virtual Reality*

Faculty Advisor: Horace Croghan (Physics)

## #7 Education and Humanities Grad Oral

**February 22 — LSU 324**

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

**1:00 – 1:10 p.m. Diane Dizon**

*Exploring Student Veteran Intersectionality and its role in Belonging at 2- and 4-year Institutions*

Research Mentor: Alfredo Gonzalez (Chicana and Chicano Studies)

**1:15 – 1:25 p.m. Siray Rodgers**

*A Revitalized Approach to Building and Restoring Communities Across Neighborhoods in America Using Multicultural and Alliance Building Techniques for 'Restorative Practices'*

Research Mentor: Nancy Erbe (Negotiation)

**1:30 – 1:40 p.m. Megan Ravare**

*Schools as Places of Possibility: Portraits of Black Women Educator-Activists*

Research Mentors: Nallely Arteaga, Stephanie Cariaga, & Edward Curammeng (Education)

**1:45 – 1:55 p.m. Jessica Miller**

*Ambient Rhetoric in Patricia Highsmith's The Price of Salt: Places, Spaces, Food, and Sound*

Research Mentors: David Sherman, Kimberly Huth, & Helen Oesterheld (English)

**2:00 – 2:10 p.m. Nate Hertweck**

*Creative Meaning-(Re)Making & Antiracism in First-Year Composition*

Research Mentor: Mara Lee Grayson (English)

## #8 Biological and Health Sciences Undergrad Oral

**February 22 — LSU 326**

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

**1:00 – 1:10 p.m. Chandra Jones**

*Black and Yellow: Corona Coloration in Encelia farinose*

Research Mentor: Sonal Singhal (Biology)

**1:15 – 1:25 p.m. Daniel Apt, Michelle Mohr, Callum Lapper, and Muhammad Nabeel KhanQadri**

*Ecological Impact of Trees on CSUDH Campus*

Research Mentor: Parveen Chhetri (Earth Science)

**1:30 – 1:40 p.m. Joshua Quiran**

*MIC Assessment of SFunga against Aspergillus strains using CLSI method*

Research Mentors: Erin McCauley (Chem & Biochem), Ashraf Ibrahim, Teclegiorgis Gebremariam (UCLA)

**1:45 – 1:55 p.m. Aysa-Monae Collins**

*The Impact of Maternal Pregnancy Complications and Prenatal Care on Infant Mortality*

Research Mentor: Enrique Ortega (Health Science)

## #9 Biological Sciences I Undergrad Poster

**February 22 — LSU Ballroom A & B**

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

**Marco Castañeda Martinez, Carlos Zuniga, and David Saldana**

*Investigating climate-growth relationships with *Pinus jeffreyi* in the San Jacinto mountains*

Research Mentors: Justin Valliere (Biology) and Parveen Chhetri (Earth Science)

**Callum Lapper, Muhammad Nabeel KhanQadri, Daniel Apt, and Michelle Mohr**

*Ecosystem Services Provided by Campus Trees*

Research Mentor: Parveen Chhetri

**Ebonie Bennett**

*Building a Large Library of Fungal Secondary Metabolites for Biological Assay Screening*

Research Mentor: Erin McCauley (Chem and Biochem)

**Thazin Yee**

*Effects of TGF- $\beta^2$  signaling pathway on Intracellular Pathogen Response in *C. elegans**

Research Mentor: Eillen Tecle

**Kekoa Nelson**

*The Negative Effects of Thermal Heat Stress on Plant's Chlorophyll Production*

Research Mentor: Justin Valliere

**Melissa Estrada**

*Identification of Fungal Secondary Metabolites with Cytotoxic Activity*

Research Mentor: Erin McCauley (Chem and Biochem)

## #10 ONLINE Behavioral & Computer Science, & Business

**February 22 — Streamed Live in LSU 326 – [Zoom Link](#)**

**Afternoon Session: 2:45 – 4:15 p.m.**

**2:45 – 2:55 p.m. Carlyn Tanner**

*Training an AI to play Snake Game using Machine Learning and Pytorch*

Research Mentor: Bin Tang (Computer Science)

**3:00 – 3:10 p.m. Giovanni Rivera**

*Nash Equilibria of Data Preservation in Base Station-less Sensor Networks*

Research Mentor: Bin Tang (Computer Science)

**3:15 – 3:25 p.m. Alexis Main**

*Employment Lockup After Penal Lockup: The Opportunities Within Fair Chance Hiring in California*

Research Mentor: Thomas Norman (Management and Marketing)

**3:45 – 3:55 p.m. Jennifer Rebollo**

*Health Disparities Among Pancreatic Cancer Patients*

Research Mentor: Ken Seligson (Anthropology)

## #11 Business, Education, Humanities, & Health Science Developmental Poster Session

**February 22 — LSU Ballroom A & B**

**Evening Session: 2:45 – 4:15 p.m.**

**Savannah Gonzalez**

*Student Athletes and Career Development*

Research Mentor: Margarita Landeros (Education)

**Allison Ray, Korbin Kittelson, and Franco Martinez**

*Effect of Different Ankle Rigidity Levels on Agility*

Research Mentors: Julie Werner (Occupational Therapy), and Jennifer Lučarević, and Mojtaba Kamyab (Orthotics and Prosthetics)

**Melissa Campos, Jasmine Alonzo, and Katarina Torrez**

*The Role of Remote Versus in Person Learning on Academic Dishonesty*

Research Mentor: Tatiana Basañez (Psychology)

**John Geldbach**

*An Absence in the Historical Record: Jewish Artists in Europe from the Middle Ages to the Renaissance*

Research Mentor: Kirstin Ellsworth (Art History)

**Alina Morales**

*Influences in the Decision-Making Process of a Juror*

Research Mentors: Sarah Britto and Saahir Shafi (Public Administration)

## #12 Health, Nutrition, and Clinical Sciences Grad Oral I February 22 — LSU Ballroom C

**Evening Session: 6:45 – 8:15 p.m.**

**6:45 – 6:55 p.m. Jonathan Alcantara, Hara Calderon, Anthony Gonzalez, and Kyle Gusto**

*Autistic Adults and their Experience with Employment*

Research Mentor: Sheryl Ryan (Occupational Therapy)

**7:00 – 7:10 p.m. Ashley Cespedes, Abigail Hakimi, Ariana Castillo, and Beatriz Adanza**

*Through the Lens of Substance Users in Recovery: A Photovoice Study*

Research Mentor: Sheryl Ryan (Occupational Therapy)

**7:15 – 7:25 p.m. Rebekah Boning, Nicole Stephanie Pantaleon, Julie E Schustack, and Amber Schwartz**

*Behind the Mask: Impression Management in Women With ADHD*

Research Mentor: Sheryl Ryan (Occupational Therapy)

**7:30 – 7:40 p.m. Nichole Campbell and Nicholas Fernando**

*A Retrospective Lived Experience: Benefits of a Faculty-Student Research Mentorship from Graduate Nursing Students' Perspectives*

Research Mentor: Sally Mahmoud (Nursing)

**7:45 – 7:55 p.m. Makenna Lu, Michelle Joyce, Barbara Lopez**

*The impact of the post-professional occupational therapy doctorate (POTD) on the career trajectories of occupational therapists*

Research Mentors: Sheryl Ryan and Claudia Peyton (Occupational Therapy)



## #13 Physical, Mathematical, and Biological Sciences

### Grad Oral

**February 22 — LSU 324**

**Evening Session: 6:45 – 8:15 p.m.**

**6:45 – 6:55 p.m. Gabriel Angulo**

*Ponderosa Pine Regeneration Response to Climate and Geomorphic Influences, Prescott National Forest, Arizona*  
Research Mentor: Parveen Chhetri (Earth Science)

**7:00 – 7:10 p.m. Michelle Mohr**

*Changes in recent summer temperatures are influencing the radial growth of Pinus ponderosa in Prescott National Forest, Arizona*  
Research Mentor: Parveen Chhetri (Earth Science)

**7:15 – 7:25 p.m. Alexander Centner**

*Coffee Borer Beetle's Habitat Expansion due to Climate Change*  
Research Mentor: Parveen Chhetri (Earth Science)

**7:30 – 7:40 p.m. Jorge Hernandez, Ashley Wickerman, Albert Barrios, and Rajan Singh**

*Recruitment of Cytotoxic T Cells and Neutrophils Maintain Dormancy in MDA-MB-468 Triple Negative Xenografts*  
Research Mentor: Shehla Pervin (Biology)

## #14 Behavioral & Social Sciences, and Education

### Grad Poster

**February 22 — LSU Ballroom A & B**

**Evening Session: 6:45 – 8:15 p.m.**

**Taylor Duffy, Denise Y. Aguiluz, Antonio Romero, and Yesenia Gonzalez**

*Gender, Disease-threat, and Self-efficacy as Predictors of Exercise Behaviors Among Diabetes At-risk Latinx College Students*  
Research Mentors: Silvia Santos and Maria Hurtado-Ortiz (Psychology)

**Lauren Jensen, Zoe Allyson, Will Kellett, and Sara Merlock**

*Perception of Mobility Assistive Devices*  
Research Mentors: Julie Werner (Occupational Therapy), and Jennifer Lučarević, and Mojtaba Kamyab (Orthotics and Prosthetics)

**Sheena Adolphus and Juana Hernandez-Jaime**

*Differences in the Use of Protective Behavioral Strategies Between Help Seekers and Non-Help Seekers Who Drink Heavily*  
Research Mentor: Kevin Montes (Psychology)

**Jennifer Baker**

*Supporting Positive Mother-Infant Interactions among Adolescent and Young Adult Mothers*  
Research Mentor: Irene Tung

**Harmony Gregorio, Gabriel Angulo, and Kahlil Scott-Moss**

*CSUDH Environmental Education Awareness*  
Research Mentor: Parveen Chhetri (Earth Science)

**Kaitlyn Manoogian**

*Exercising for Your Brain: A Study on Exercise Intensity and Error Monitoring*  
Research Mentor: Kaylie Carbine (Psychology)

**Alexander Camarillo, Stacy Zamora, Maria De La Torre**

*Promoting Minority Student Success in STEM through First-Year Seminar Experiences*  
Research Mentor: Philip Vieira (Psychology)

## **#15 P<sup>2</sup> Lab: Positive Perspectives in Research Developmental Session**

**February 22 — LSU 326**

**Evening Session: 6:45 – 8:15 p.m.**

Research Mentors: Erin Barrett, Steven Frieze, and Monique Turner (Psychology), and Joanna Perez (Sociology)

**6:45 – 6:55 p.m.** Jennifer Correa, Nasim Karimi, Christian Riley, Miguel Perez, Priscilla Arriaga, & Jesus Molina  
*COVID-19 Pandemic Impact on CSUDH Students*

**7:00 – 7:10 p.m.** Eliel Dominguez, Yadira Tanory, and Tyler O'Reily  
*Resilience in light of anxiety*

**7:15 – 7:25 p.m.** Dwashonique Sanford, Diana Minero, Ezquiel Minero, Tessy Onwukeme, Anahi Gomez, & Tosh Ayaes  
*Making the Invisible Visible; Resilience through Awareness of Microaggressions*

**7:30 – 7:40 p.m.** Clark Moore, Hazar Nasrini, Aamira Lomax, and Nasim Karini  
*Authenticity and Cognitive Dissonance*

**7:45 – 7:55 p.m.** Clark Moore, Dwashonique Sanford, Marlo Lozano, Adriana Segura, and Hunter Larini  
*Trans Empowerment*

**8:00 – 8:10 p.m.** Marisol Najera, Chelsea Ramos, Michelle Garcia, Emily Guevara, Carmen, Ocegüera, Janelly Reyes, Janice Lima Espinoza, Iris Rico, and Anahi Gomez  
*Attitudes and Perceptions of Mental Health in the Latinx Community*

## **#16 Undergraduate Roundtable I**

**February 22 — LSU 322**

**Evening Session: 6:45 – 8:15 p.m.**

**Vincent Temesvary**

*Identify genes involved in skin development in Zebrafish*

Research Mentor: Fang Wang (Biology)

**Precious Jones**

*The Positive Effects of Social Media on Well-being*

Research Mentor: Ashley Membere (Psychology)

**Aysa-Monae Collins**

*The Role of Prenatal Care for Preterm Birth Outcomes for Non-Hispanic Black Women*

Research Mentor: Enrique Ortega (Health Science)

**Tamiah Lacey**

*American Depression Glassware*

Research Mentor: Sarah Taylor (Anthropology)

# THURSDAY, FEBRUARY 23

## #17 Physical & Mathematical Sciences Undergrad Oral February 23 — LSU 326

**Morning Session: 9:00 – 10:30 a.m.**

- 9:00 – 9:10 a.m. Matthew Delgado and Alejandra Arjon**  
*A detailed study of the correlation between Late Gadolinium Enhancement (LGE) and Cardiac Sarcoidosis (CS) using Machine Learning Methods*  
Research Mentor: Yi Grace Wang (Mathematics)
- 9:15 – 9:25 a.m. Moises Juarez Aboytes**  
*Strange Matter: Understanding Neutron Stars & Nuclear Fusion via Hyperon Decay*  
Research Mentor: John Price (Physics)
- 9:30 – 9:40 a.m. Michael Pinkerton**  
*A Case for Feasibility of Short-Lived Beams for Nuclear Physics Research*  
Research Mentor: John Price (Physics)
- 9:45 – 9:55 a.m. Guadalupe Mora, Nataly Mendoza, and Joey Kim**  
*Mathematical modeling of the spread of infectious diseases*  
Research Mentor: Alexander Chen (Mathematics)

## #18 Biological Sciences II Undergrad Poster February 23 — LSU Ballroom A & B

**Morning Session: 9:00 – 10:30 a.m.**

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| <p><b>Jocelyne Mena</b><br/><i>Identifying if ycfJ, yqgB, malZ and tfaS Play a Role in Long-Term Stationary Phase in Escherichia coli</i><br/>Research Mentor: Karin Kram (Biology)</p> <p><b>Susana Lopez-Ignacio</b><br/><i>UBE3B in Autism Spectrum Disorder</i><br/>Research Mentor: Sonal Singhal (Biology)</p> <p><b>Victoria Espeso</b><br/><i>Investigating the regulator mechanism of purine metabolism in the Intracellular Pathogen response</i><br/>Research Mentor: Eillen Tecle (Biology)</p> <p><b>Amanda Thomas</b><br/><i>Identification of Intracellular Pathogens from Wild-Caught Nematodes</i><br/>Research Mentor: Eillen Tecle (Biology)</p> <p><b>Ashley Sandoval</b><br/><i>Milkweed Microbiome</i><br/>Research Mentor: Kathryn Theiss (Biology)</p> | <p><b>David Giron Rodas and Melaine Singleton</b><br/><i>Using zebrafish to investigate the role of transcription factors batf2 and cebpd in early skin development and its interactions with sensory neurons</i><br/>Research Mentor: Fang Wang (Biology)</p> <p><b>Jessica Sklar</b><br/><i>Using Zebrafish as a Model System to Study the Effects of Microplastic Ingestion on Fecal Microbiomes</i><br/>Research Mentors: Fang Wang and Samantha Leigh (Biology)</p> <p><b>Isabel Parada</b><br/><i>How does breeding system vary across populations of pale evening primrose (Oenothera pallida ssp. pallida)?</i><br/>Research Mentor: Kathryn Theiss</p> |
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## #19 ONLINE Health Sciences, Business, and Education February 23 — Streamed Live in LSU 324 – [Zoom Link](#)

### Morning Session: 9:00 – 10:30 a.m.

- 9:00 – 9:10 a.m. **Jeannicet Bello**  
*The Influence of the COVID-19 Pandemic on College Students of Color and Their Experience with Returning to Campus*  
Research Mentor: Kelin Li (Sociology)
- 9:15 – 9:25 a.m. **Jason Leung**  
*The Effects of Evidence-Based Interventions on Hematopoietic Stem Cell Transplant Caregiver Strain and Burden: An Integrative Review*  
Research Mentor: Terri Ares (Nursing)
- 9:30 – 9:40 a.m. **Carlos Mora**  
*Adopting a Policy for Social Media Use to Improve Organizational Effectiveness in Nonprofit Health Care Organizations*  
Research Mentor: Rui Sun (Public Administration)
- 9:45 – 9:55 a.m. **Cindy Knapp**  
*Reducing Unplanned Extubation Occurrences in the NICU: An Integrative Review*  
Research Mentor: Terri Ares (Nursing)
- 10:00–10:10 a.m. **Kara Zorzoli, Andrew Bergum, Cassie Morton, and Devon Thompson**  
*Comparing Dynamic Alignment Tools on Prosthetic Legs for Unilateral Trans-Tibial Amputees: A Case Study*  
Research Mentors: Julie Werner (Occupational Therapy), and Jennifer Lučarević, and Mojtaba Kamyab (Orthotics and Prosthetics)

## #20 Health, Nutrition, and Clinical Science II Grad Oral February 23 — LSU Ballroom C

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

- 1:00 – 1:10 p.m. **Shelby Shelman, Ellyson Martens, Eric Simington, and Conner Irvin**  
*Custom Injected Silicone Liner for a Rotationplasty Running Prosthesis*  
Research Mentor: Mark Muller (Orthotics and Prosthetics)
- 1:15 – 1:25 p.m. **Hannah Smith, Armen Saryan, and Nyi Nyi Sett**  
*The Form, Function, and Meaning of Online Dating for an Adult with a Spinal Cord Injury: A Narrative Study*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 1:30 – 1:40 p.m. **Carly Wong, Erica Ni, Alice Sinclair, and Daphne Wang**  
*The Long Haul: Stories of Persons with Long COVID and Their Loved Ones*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 1:45 – 1:55 p.m. **Matthew Hoshiko, Elisabeth Kwon, and Aaron Mella**  
*"Death By a Thousand Cuts": The Lived Experience of Minoritized Occupational Therapists Navigating Workplace Microaggressions*  
Research Mentor: Sheryl Ryan (Occupational Therapy)
- 2:00 – 2:10 p.m. **Eileen Li, Julie Kim, Jane Hong, and Hannah Kleinbart**  
*Exploring the Changes in Parenting Occupations for Immigrants*  
Research Mentor: Sheryl Ryan (Occupational Therapy)

## #21 Health, Nutrition, & Clinical Science Undergrad Poster

### February 23 — LSU Ballroom A & B

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

**Ana Castillo**

*Health Resource Accessibility on the Dominguez Hills Campus*

Research Mentors: Ken Seligson and Sarah Lacy (Anthropology)

**Aysa-Monae Collins**

*Analysis of Prenatal and Maternal Risk of Fetal Mortality*

Research Mentor: Enrique Ortega (Health Science)

**Charlize Alyssa Castillo**

*What is the Actual Composition of Uric Acid Stone*

Research Mentor: Sen Wang (Chemistry and Biochem)

**Vyvy Tran and Nuria Maida Safar**

*A description of cancer risk knowledge among college students and a test of the Structural Influence Model*

Research Mentor: Erin Merz (Psychology)

## #22 Marine Natural Products: Medicines from the Sea Undergraduate Symposium

**February 23 — LSU 324**

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

Research Mentors: Erin McCauley and Kari Pederson (Chemistry and Biochemistry)

**1:00 – 1:10 p.m. Shaz Sutherland**

*Maximizing Biosynthesis of Secondary Metabolites from Marine-Derived Fungi for Biological Screening*

**1:15 – 1:25 p.m. Ana Ponce**

*Identification of Fungal Natural Products that Exhibit Cytotoxic Activity Towards a Brain Cancer Cell Line*

**1:30 – 1:40 p.m. Jeffrey Ocampo**

*Identification of Natural Products that Exhibit Bactericidal or Anti-virulence Activity Against Antibiotic Resistant Gram-Negative Pathogenic Bacteria*

**1:45 – 1:55 p.m. Sabrina Barata**

*Identifying Novel Chemical Scaffolds from Marine Derived Fungi using Tandem Mass Spectrometry based Molecular Networking*

**2:00 – 2:10 p.m. Jorge Hernandez Garcia**

*Natural Product Structure Elucidation using 1D and 2D Nuclear Magnetic Resonance Spectroscopy in Conjunction with Circular Dichroism Spectroscopy*

**2:15 – 2:25 p.m. Nathan Williams**

*Utilizing Global Natural Products Social Molecular Networking to Identify Novel Pyrrolo[4,3,2-de]quinoline compounds from the Marine Sponge, Zyzza fuliginosa*

**2:30 – 2:40 p.m. Edwin Chavez Santana**

*Probing of the microbiome of the marine sponge Jaspis splendens for the biosynthetic origin of Jaspilakinolide.*



## #23 Behavioral, Social, & Health Sciences Undergrad Poster

February 23 — LSU Ballroom A & B

Afternoon Session: 2:45 – 4:15 p.m.

**Maria Delgado and Kerry Moynihan**

*A Scoping Review of Alcoholism and Cannabis Use: Its Effects on Neurodevelopment*

Research Mentor: Kevin Montes (Psychology)

**Kerry Moynihan and Maria Delgado**

*Stimulants and Their Impulsive Consequences*

Research Mentor: Kevin Montes (Psychology)

**Paulina Vinolas and Bernard Amofa**

*When Does Gratitude Matter More for College Students' Resilience and Mental Health?*

Research Mentor: Giacomo Bono (Psychology)

**Aysa-Monae Collins**

*The Impact of Prenatal Care on Fetal Mortality in Black Mothers*

Research Mentor: Enrique Ortega (Health Science)

**Bernard Amofa and Paulina Vinolas**

*How Emotion Regulation Supported College Students'*

*Achievement and Resilience During the Covid-19 Pandemic*

Research Mentor: Giacomo Bono (Psychology)

**Anthony Makielski and Madison Reyna**

*Retrospective Self-Reports of Parental Monitoring*

Research Mentor: Carl Sneed (Sociology)

**Aliza Potter**

*Sooo, like? Are you pregnant? You know the statistics, right?: An Analysis of Listening to Black Mothers in California.*

Research Mentor: Ashley Membere (Psychology)

## #24 Physical, Mathematical, and Computer Sciences

### Undergraduate Poster

February 23 — LSU Ballroom A & B

Evening Session: 5:30 – 7:00 p.m.

**Jose Guzman**

*Flood Estimation of Southern Fork Merced Watershed Using Spatial Analysis Techniques*

Research Mentor: Parveen Chhetri (Earth Science)

**Jose Guzman and Ian Yoon**

*Geospatial technology to map watershed and river order in San Bernardino County, CA*

Research Mentor: Parveen Chhetri (Earth Science)

**Stephanie Isidoro, Cindy Muñoz, Noah Soto, and David Saldana**

*Measuring the environmental impact of reducing single-use plastic water bottle usage on CSUDH campus.*

Research Mentor: Parveen Chhetri (Earth Science)

**Melissa Avila-Briones**

*Identification of Putatively Novel Natural Products from a Marine Derived Penicillium sp. of Fungi*

Research Mentor: Erin McCauley (Chem and Biochem)

**Anthony Trochez, Michelle Mohr, Gabriel Angulo, and Raju Bista**

*Tree-Ring climate response of Pinus ponderosa in Prescott National Forest, Arizona*

Research Mentor: Parveen Chhetri (Earth Science)

**Angel Perez, Rogelio Valdez, Nataly Mendoza, and Aileen Gandarilla**

*Sum-Free Sets in the Bubbling Cauldrons Problem*

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

**Berenice Rojas**

*Indoor Ventilation quality monitoring using a self-built monitor*

Research Mentor: Barbara Belmont (Chem & Biochem)

**Yolanda McDow**

*Does a non-phthalate plasticizer contain phthalate?*

Research Mentor: Barbara Belmont (Chem & Biochem)

**Cody Nichols**

*Reduced Graphene Oxide Synthesis from Waste Biomass and Its Usage in the Fabrication of Capacitors and Supercapacitors*

Research Mentor: Lamar Glover (Physics)

**Justin Ruiz and Christopher Gonzalez**

*Prize-Collecting Traveling Salesman Problem: A Reinforcement Learning Approach*

Research Mentor: Bin Tang (Computer Science)

**Edlyn Pacheco**

*A Study of Belady's Anomaly in Page Replacement Algorithms*

Research Mentor: Bin Tang (Computer Science)

## #25 Behavioral and Social Sciences Developmental Undergrad Poster

**February 23 — LSU Ballroom A & B**

**Evening Session: 5:30 – 7:00 p.m.**

**Janet Sanchez and Ashley Romero**

*The role of attachment styles on interpersonal relationships among adults*

Research Mentor: Tatiana Basañez (Psychology)

**Isaac Colin, Brianna Antunez, and Elena Rodriguez,**

*Adverse Childhood Trauma and Anxiety*

Research Mentor: Tatiana Basañez (Psychology)

**Leah Allen, Lizbeth Hernandez, and Jose Quintero**

*The Link Between Social Media and Anxiety*

Research Mentor: Tatiana Basañez (Psychology)

**Lesley Garcia, Jennifer Ibañez, Lucio Manzo, and Guadalupe Oropeza**

*The Role of Yoga Practices on Stress levels*

Research Mentor: Tatiana Basañez (Psychology)

**Karina Martinez**

*The Effect of Exposure to Maps of US gun deaths on Attitudes about Guns*

Research Mentor: Tatiana Basañez (Psychology)

**Diana Luna, Julia Marquez, and Kennedy Collins**

*Comparing Levels of Job Satisfaction and the Role of Job Benefits Among Union and Non-Union Employees*

Research Mentor: Tatiana Basañez (Psychology)

**Maya Lince, Purshe Morales, Alexis Duschane, and Karla Torres Ruvalcaba**

*Social Media consumption and Mental Health Stigmas*

Research Mentor: Tatiana Basañez (Psychology)

**Monica Dorca, Vyvy Tran, Anthony Be, and Nuria Maida Safar**

*Examining the Impact of Accessibility to Resources on Educational Outcomes For First Generation College Students*

Research Mentors: Erin Barrett, Steven Frieze, and Monique Turner (Psychology)

## #26 Health, Nutrition, & Clinical Sciences Grad Oral III

**February 23 — LSU Ballroom C**

**Evening Session: 5:30 – 7:00 p.m.**

**5:30 – 5:40 p.m. Maria Fernanda Cervantes Godinez, Karla Carrillo Robles, Ceslee Gonzales, and Socorro Renee Cruz**

*Occupational Therapy Practitioner's Experiences in Pediatric Telehealth During COVID-19*

Research Mentor: Sheryl Ryan (Occupational Therapy)

**5:45 – 5:55 p.m. Krystal Lopez, Jocelyn Macias, and Ashley Hansack**

*Experiences of 1st Generation Latinx Individuals and Their Occupation of Health Management*

Research Mentor: Sheryl Ryan (Occupational Therapy)

**6:00 – 6:10 p.m. Catherine Ngo, Austin Shen, Tiffany Tran, and Jizelle Vilela**

*Help me help others: The work experiences of occupational therapists with physical disabilities*

Research Mentor: Sheryl Ryan (Occupational Therapy)

**6:15 – 6:25 p.m. Victoria Patten, Keegan Shepherd, Yvonne Querido, and Heather Nguyen**

*Impact of Type 1 Diabetes on Family Dynamics*

Research Mentor: Sheryl Ryan (Occupational Therapy)

**6:30 – 6:40 p.m. Amanda Martelli, Amy Lumley, John Jonson, Rachel Morgan**

*Adult Reflections of Adolescent Experiences with Type 1 Diabetes*

Research Mentors: Sheryl Ryan (Occupational Therapy)

## **#27 Behavioral Sciences, Arts, and Business Undergrad Oral**

**February 23 — LSU 326**

**Evening Session: 5:30 – 7:00 p.m.**

- 5:30 – 5:40 p.m. **Ricardo Lopez Jr.**  
*Weapon-Based Masculinity: Militarized Machismo in Roma, El Secreto De Sus Ojos, and El Norte*  
Research Mentors: Roderick Hernandez (English) and Andrea Johnson (History)
- 5:45 – 5:55 p.m. **Monique Mangum**  
*Gaddang: Grammaticalization & Rule Ordering*  
Research Mentor: Iara Mantenuto (English)
- 6:00 – 6:10 p.m. **Tiffany Amacker**  
*Customer Conflict Management: Identifying and Negotiating Resolutions*  
Research Mentor: Nancy Erbe (Negotiation)
- 6:15 – 6:25 p.m. **Michelle Avila**  
*Cerro Sechán: The Iconographic Mystery*  
Research Mentor: Jerry Moore (Anthropology)
- 6:30 – 6:40 p.m. **Daniella J. Enriquez**  
*Economic Impacts of Prohibition*  
Research Mentors: Andrea Johnson and Kate Fawver (History)
- 6:45 – 6:55 p.m. **Alicia Moore**  
*Deciding Factors of Hormones That Can Predict a Parent's Ability to Successfully Nurture Young*  
Research Mentor: Thomas Norman (Management)

## **#28 Behavioral Science, Education, Computer Science, and Public Administration Developmental Oral**

**February 23 — LSU 324**

**Evening Session: 5:30 – 7:00 p.m.**

- 5:30 – 5:40 p.m. **Jazlyn Landaverde**  
*Identifying Gaps: Los Angeles City College and the Dream Resource Center*  
Research Mentor: Margarita Landeros (Education)
- 5:45 – 5:55 p.m. **Muhammad Umer Naeem and Kunal Parnami**  
*Employee Identification and Tracking System*  
Research Mentor: Alireza Izaddoost (Computer Science)
- 6:00 – 6:10 p.m. **Ashley Corsey**  
*Why women don't stay with cybersecurity and the barriers that arise and how to break them down*  
Research Mentor: Myron Z Sheu (Business Administration)
- 6:15 – 6:25 p.m. **Karina Ceja, Stephanie Cervantes, and Elia Arteaga**  
*The Role of Early Childhood Education on Academic Outcomes*  
Research Mentor: Tatiana Basañez (Psychology)
- 6:30 – 6:40 p.m. **Nallely Gutierrez, Abigail Morales, and Maria Morales**  
*Childhood Trauma and Levels of Income*  
Research Mentor: Tatiana Basañez (Psychology)

## **#29 Graduate Roundtable**

**February 23 — LSU 322**

**Evening Session: 5:30 – 7:00 p.m.**

**Karla Torres**

*Language ideologies and its impact on the practice of Chicanx English in higher education*

Research Mentor: lara Mantenuto (English)

**Jorge Roque**

*Historically Disadvantaged Communities and Mental Health Practitioners evaluation of Mental Health Services:  
Moving Towards Health Equity*

Research Mentor: Ashley Membere (Psychology)

**John W. Horton III**

*African American English from Three Historically African American Catholic Communities in Los Angeles*

Research Mentor: lara Mantenuto (English)

# FRIDAY, FEBRUARY 24

## #30 Health, Nutrition, and Clinical Science Grad Poster

February 24 — LSU Ballroom A & B

Morning Session: 9:00 – 10:30 a.m.

**Tiffany Salazar**

*Administration of Minimal Enteral Nutrition During Therapeutic Hypothermia*

Research Mentor: Terri Ares (Nursing)

**Blake Sanders, Eric Simington, and John Bishop**

*Osseointegration in Relation to Phantom Limb Pain*

Research Mentors: Julie Werner (Occupational Therapy), and Mojtaba Kamyab (Orthotics & Prosth.)

**Christa Berry, Riley Greer, Shelby Rose Shelman, and Ellyson Martens**

*Gross Motor Development in Children with Lower Limb Differences*

Research Mentors: Julie Werner (Occupational Therapy), and Jennifer Lučarević (Orth. and Prosth.)

**Megan Hertzog**

*Occupational Noise in the Field of Orthotics and Prosthetics*

Research Mentors: Julie Werner (Occupational Therapy), and Jennifer Lučarević and Mojtaba Kamyab (Orthotics and Prosthetics)

**Karyssa Dela Cruz, Eric Andrews, Mazen Elhosseiny, and Conner Irvin**

*Clinical Applications between Different Types of 3D Scanners*

Research Mentor: Julie Werner (Occupational Therapy)

**Lauren Jensen, Zoe Allyson, Will Kellett, & Sara Merlock**

*Silicone Gloves Designed to Limit Vibration While Using a Cast Saw*

Research Mentors: Julie Werner (Occupational Therapy), and Jennifer Lučarević and Mojtaba Kamyab (Orthotics and Prosthetics)

## #31 Behavioral and Social Sciences Grad Oral

February 24 — LSU 324

Morning Session: 9:00 – 10:30 a.m.

**9:00 – 9:10 a.m. Brianne O'Donoghue**

*Equitable Grantmaking in the Time of COVID-19: A Case Study*

Research Mentors: Adriana Aldana and Andridia Mapson (Social Work)

**9:15 – 9:25 a.m. Ana Arvizu**

*Abortion Attitudes Since Roe v Wades Legislation and Today*

Research Mentor: Katy Pinto (Sociology)

**9:30 – 9:40 a.m. Eli Sarceno**

*Evangelical Latino immigrants building 'community' in South [Central] L.A.*

Research Mentors: Joanna Perez, Claudia Diera, and Kelin Li (Sociology)

**9:45 – 9:55 a.m. Denise Y. Aguiluz and Belen V. Guillen**

*Effects of Intimate Partner Violence and Discrimination During Pregnancy on Black Women's Mental Health*

Research Mentor: Irene Tung (Psychology)

**10:00–10:10 a.m. Ryan Vane**

*Critical review of studies investigating the relationship between mTBI & long-term neurocognitive outcome*

Research Mentor: Tara Victor (Psychology)



## #32 Arts and Humanities Undergrad Oral

February 24 — LSU 326

Morning Session: 9:00 – 10:30 a.m.

9:00 – 9:10 a.m. Caitlin McClister

*"Missteps and Misfires: Perceptions of the Japanese Attack on Pearl Harbor"*  
Research Mentor: Andrea Johnson (History)

9:15 – 9:25 a.m. Michelle Avila

*The Sacred Mystic: St. Catherine of Siena's Piety, Stigmata, and Holy Anorexia In Baroque Art*  
Research Mentor: Kirstin Ellsworth (Art History)

9:30 – 9:40 a.m. Edmund Arevalo

*Family Ties*  
Research Mentor: Devon Tsuno (Art & Design)

9:45 – 9:55 a.m. Florencia Bravo

*"Time is on my side": Examining the Exploitation of Feminine Bodies through the Masculine Need for Immortality in Mexican Gothic and Other Novels*  
Research Mentors: Helen Oesterheld and Roderick Hernandez (English)

10:00–10:10 a.m. Jackeline Granados

*Full Metal Gothic: An Examination of Social Changes and Anxiety*  
Research Mentor: Helen Oesterheld (English)

10:15–10:25 a.m. Ricardo Lopez Jr.

*Conventional Transgressors: A Contemporary Contradiction in the Gothic Heroines of Fledgling and Mexican Gothic*  
Research Mentor: Helen Oesterheld (English)

## #33 Undergraduate Roundtable II

February 24 — LSU 322

Morning Session: 9:00 – 10:30 a.m.

Maria G. Prince

*Impact of Anti-Mexican Policies and Attitudes on Blaxicans' Spanish Use*  
Research Mentor: Iara Mantenuto (English)

Shirin Jorayeva and Kunal Parnami

*Addressing the Need of Government Workforce: From a Job Aggregator Tool to a Public Sector Alliance*  
Research Mentors: Rui Sun (Public Administration) and Krystal Rawls (Workforce Integration Network)

Aliza Potter

*Ughh of Course She's Pregnant, you know those People!: Pregnant Black women experiences in healthcare and in the workplace*  
Research Mentor: Ashley Membere (Psychology)

Isabelle Hutchins

*Sociolinguistic Attitudes of Tagalog Heritage Speakers*  
Research Mentor: Iara Mantenuto (English)

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## Notes

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