



OFFICE OF UNDERGRADUATE RESEARCH LAMAR UNIVERSITY

For ten years, The Office of Undergraduate Research (O.U.R.) serves with dedication the undergraduate research and creative activities efforts at Lamar University. **The O.U.R. grant program** was the first undergraduate program sponsored by Lamar which offered research opportunities to undergraduates willing to develop new ideas and explore their curiosity in our laboratory facilities, under mentors' supervision.

On Nov. 5, the Texas STEM conference celebrated its tenth edition with a plethora of special guests and 25 presentations offered by our Lamar UG and graduate students, from all the STEM academic areas. Also, we welcomed young researchers from UT Austin, Rice University, UT Arlington and UTMB-Galveston from Texas, University of Arkansas-Fayetteville, Cornell University, Colorado School of Mines, Auburn University, LSU, and Arizona State University, and three special guests from prominent US companies: Dr. Jay Prigmore, an Electrical Quality Engineer and Technical Manager at Google Inc.; Mr. Alexander Bahrim, a Systems Engineer at NASA – Johnson Space Flight Center and Mr. Monir Hossain, a Senior Engineer at Entergy. The international component of this year's conference brought an invited speaker from Germany: Dr. Raktim Haldar, an Alexander von Humboldt fellow at Leibniz University of Hannover.



Nov. 19 - The HASBSEB conference offered a greater diversity than ever, with a keynote speaker, Professor Juan Llopis, Vice-President of the University of Alicante, Spain, a world-renowned academic researcher and a distinguished Professor of Business Management, who was introduced by Dr. Juan Luis Nicolau, Marriott Professor at the Virginia Tech, one of the top five world experts in Tourism Management. Seventeen HASBSEB undergraduates presented their research. Two eminent LU faculty, Dr. Don Warren and Dr. Mamta Singh, presented their programs.



The Office of Undergraduate Research – Advisory Board

College of Arts and Sciences

Dr. Stefan Andrei – Professor of Computer Science

Dr. Bianca Easterly – Associate Professor of Political Science

Dr. Gina Hale – Associate Professor of Nursing

Dr. Edythe Kirk - Associate Professor of Psychology

Dr. Matthew Hoch - Associate Professor of Biology

College of Engineering

Dr. Robert Kelley Bradley – Assistant Professor of Industrial Engineering

Dr. Chun-Wei Yao – Associate Professor of Mechanical Engineering

Dr. Thinesh Selvaratnam – Assistant Professor of Civil and Environmental Engineering

College of Fine Arts and Communication

Dr. Nicki Michalski – Associate Professor of Communication

Dr. Lekeitha Morris – Associate Professor of Speech and Hearing

College of Business

Dr. Gevorg Sargsyan – Assistant Professor of Finance

College of Education and Human Development

Dr. Mamta Singh – Associate Professor of Teacher Education

Dr. Freddie Titus – Associate Professor of Teacher Education, Vice President for Diversity Inclusion and Community Relations at Lamar

Mary and Gray Library

Dr. Alyse Jordan – Head of Research, Engagement & Learning of Library

Lamar Foundation

Mr. Juan Zabala – Vice President for University Advancement and Chief Officer of the Lamar University Foundation

Co-Chairs of the 9th Annual HASBSEB Conference

Dr. Bianca Easterly – Associate Professor of Political Sciences

Dr. Gina Hale – Associate Professor of Nursing

Dr. Nicki Michalski – Associate Professor of Communication

Dr. Mamta Singh - Associate Professor of Teacher Education

Dr. Gevorg Sargsyan – Assistant Professor of Finances

Co-Chairs of the 10th Annual Texas STEM Conference

Dr. Stefan Andrei – Professor of Computer Science

Dr. Robert Kelley Bradley – Assis. Professor of Industrial & Systems Engr.

Dr. Matthew Hoch - Associate Professor of Biology

Dr. Thinesh Selvaratnam – Assistant Professor of Civil and Env. Engr.

Dr. Chun-Wei Yao – Associate Professor of Mechanical Engineering

*Thank you for making the two conferences
memorable events!*



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LAMAR UNIVERSITY

**A big “Thank You!” to all judges
for assessing student presentations at
The 10th Annual Texas STEM Conference**

Dr. Stefan Andrei (**chair**)

Dr. Kelley Bradley (**chair**)

Dr. Berna Eren-Tokgoz (**chair**)

Dr. Matt Hoch (**chair**)

Dr. Ian Lian

Dr. Nicki Michalski

Dr. Lauren Richardson (**chair**)

Dr. Thinesh Selvaratnam

Dr. Chun-Wei Yao (**chair**)

Dr. Paul Bernazzani

Dr. Nicholas Brake

Dr. Ping He (**chair**)

Dr. Edythe Kirk

Dr. Shannon Jordan

Ms. Elizabeth Sanders

Dr. Gevorg Sargsyan

Dr. Randall Terry

Dr. Cristian Bahrin

The 9th Annual HASBSEB Conference

Dr. Bianca Easterly

Mr. Andre Favors (**chair**)

Dr. Mustapha Jourdini

Dr. Shannon Jordan

Dr. Millicent Musyoka

Dr. Gevorg Sargsyan (**chair**)

Mr. O'Brien Stanley

Dr. Margot Gage (**chair**)

Dr. Don Warren

Dr. Gina Hale (**chair**)

Dr. Lilian Felipe

Dr. Komal Karani (**chair**)

Dr. Nicki Michalski

Dr. Binod Nainabasti

Dr. Mamta Singh (**chair**)

Ms. Elizabeth Sanders

Dr. Stefan Andrei

Dr. Cristian Bahrin

10th Annual Texas STEM Award Winners

Best SURF STEM Projects for Year 2022

Winner:



Lily Yoder – major in Psychology

Research in Human Behavior

“The Effects of Positive Mood and Stereotype Threat on Memory Recall.”

Mentor: Dr. Edythe Kirk

Runner Up:



Ian Sisson – major in Chemistry

Research in Sustainable Materials – Polymers

“Iron-Cellulose Bioplastic Nanocomposite Research.”

Mentor: Dr. Paul Bernazzani



Best SURF Presentation at the Texas STEM Conference

Winner:



Ian Sisson – major in Chemistry

Research in Sustainable Materials – Polymers

“Iron-Cellulose Bioplastic Nanocomposite Research.”

Mentor: Dr. Paul Bernazzani

Best Poster Presentation for Undergraduate Research

First place:



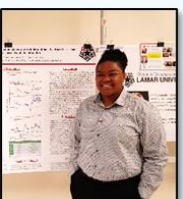
David Matherne – major in Biology

Research in Geo-space Sciences

“Interplanetary Magnetic Cloud of April 17, 1999.”

Mentors: Dr. Evgeny Romashets and Dr. Cristian Bahrim

Second place:



Tarin Hill – major in Chemistry

Research in Chemistry

“Exploiting the hydrogen storage properties of ammonia borane with the addition of polyacrylic acid and calcium chloride: Thermal and kinetic studies.”

Mentor: Dr. Ozge Gunaydin

Third place:



Ian Sisson – major in Chemistry

Research in Sustainable Materials – Polymers

“Iron-Cellulose Nanocomposites: A Potential Replacement for High Strength Plastics.”

Mentor: Dr. Paul Bernazzani



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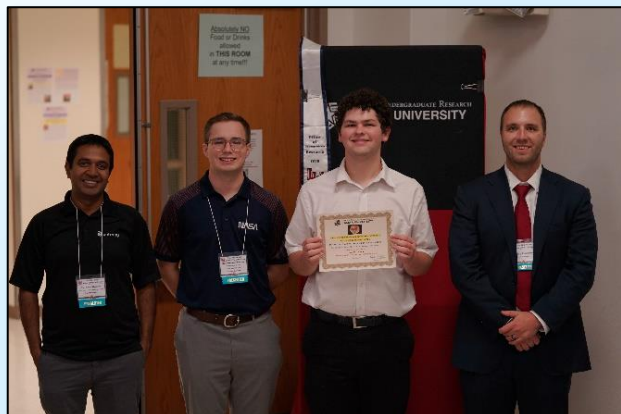


By participating in undergraduate research with SURF, I was able to explore topics in human behavior that interest me. The process of designing my own study, running the experiment, and presenting my findings at STEM conference has been a rewarding experience. I look forward to continuing my research in the Spring!

Lily Yoder, majoring in Psychology

I have been given a tremendous opportunity, receiving the means and freedom to explore and find my own answers to my own questions. The guidance and support offered to pursue my passion for discovery has been invaluable, and I have thoroughly enjoyed my time in the SURF program.

Ian Sisson, majoring in Chemistry



The Texas STEM Conference was during my first semester starting a research project, and it was a wonderful experience that gave me a platform to present the work that I had been working on for the past three months. The conference not only gave me the opportunity to express my passion for chemistry, but also I was able to watch other presenters with the same passion for their fields speak on their topics. I am grateful for the experience and will definitely attend next year.

Tarin Hill, majoring in Chemistry

10th Annual Texas STEM Award Winners



Best Talk at Undergraduate Level for non-OUR Sponsored Research

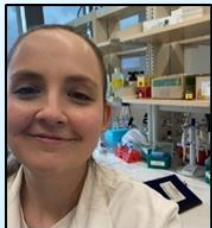
Winner:

Zaid Mohammed – major in Biology

Research in Medicine

“Role of Autophagy Receptors in Cancer.”

Mentor: Dr. Ian Lian



Best Poster Presentation at Master Level

Winner:

Elizabeth Claire Alexander – Master candidate in Biology

Research in Biology

“CBD Mechanisms of Action at the Human 5-HT1A Receptor.”

Mentor: Dr. Mariam Vasefi



Best Poster Presentation at Doctoral Level

Winner:

Rishi Bharadwaj – Doctoral candidate in Electrical Engineering

Research in Optoelectronics

“Comparison of the Interference Patterns between Non-Coherent and Coherent Laser Beams Illuminating the Same Dielectric Surface.”

Mentor: Dr. Cristian Bahrim



Best Talk at Doctoral Level

Winner:

Premkumar Ravishaker - Doctoral candidate in Industrial and Systems Engineering

Research in Oil Industry

“Increasing The Oil and Gas Pipeline Resiliency Using Image Processing Algorithm.”

Mentor: Dr. Berna Eren-Tokgoz



Runner Up:

Prasad Pawar – Ph.D. candidate in Chemical Engineering

Research in Bioprocessing

“Demulsification of Tight Crude Oil-Water Emulsions Under Microwave Radiation in Presence of Chemical Demulsifiers.”

Mentor: Dr. Clayton Jeffries

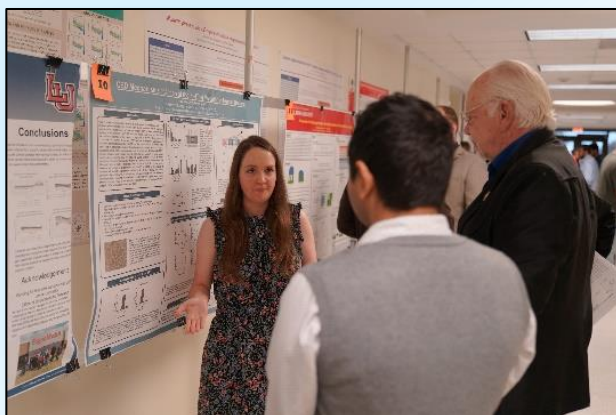


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The Texas STEM Conference was an invaluable experience which offered me the opportunity to share my research with peers and professors. The preparation for the talk, as well as the feedback I received after, strengthened my communication skills. It was also interesting listening to the work done by others who presented their research, and I left the Conference feeling inspired and excited to continue walking down the path of research.

Zaid Mohammad, majoring in Biology



It was a great experience at Texas STEM Conference. I came across new trends in my research and was able to interact with like-minded researchers. The conference benefited me broaden my outlook and improve my knowledge of other research topics. – Premkumar Ravishankar – Ph.D candidate in Industrial and Systems Engineering

It was a nice experience presenting my research at the 10th Texas STEM conference. It allowed me to answer some inquisitive questions and receive valuable suggestions. This year's talks at the conference were interesting and insightful.

Prasad Pawar – Ph.D. candidate in Chemical Engineering



I was very fortunate to be able to combine two of the most fascinating streams of science, Physics and Engineering under the wise mentorship of Dr. Cristian Bahrim. The research has expanded my knowledge about one of the biggest mysteries of the Universe i.e. the light. My research revolves around the concept of slowing down a Laser Beam by interference. In the experiment, we propose a technique for an Opto-Electronic switch.

Rishi Bharadwaj – Ph.D candidate in Electrical Engineering

9th Annual HASBSEB Award Winners

Best SURF HASBSEB Projects for Year 2022



Winner: Margo Eugenio – Major in Teacher Education

Mentor: Dr. Mamta Singh

Research in Teacher Education

“Social-Emotional Learning & Culturally Responsive Teaching: Do Preservice Teachers have the Skill, Knowledge, & Awareness to Support Student Achievement? An Exploratory Study!”

Department of Teacher Education — COE&HD



Runner-up: Chaley Cleckley – Major in Teacher Education

Mentor: Dr. Mamta Singh

Research in Teacher Education

“Genetic Technology and the use of an Oral Debate Method on Questioning Ethics in the Classroom”

Department of Teacher Education — COE&HD

Best SURF Presentation at the HASBSEB Conference



Winner: Margo Eugenio – Major in Teacher Education

Mentor: Dr. Mamta Singh

Research in Teacher Education

“Social-Emotional Learning & Culturally Responsive Teaching: Do Preservice Teachers have the Skill, Knowledge, & Awareness to Support Student Achievement? An Exploratory Study!”

Department of Teacher Education — COE&HD



Best Presidential Fellow Presentation

Taliah Belcher – Major in Finance

Research in *“Impact of Militarization on Growth of Countries.”*

Mentor: Dr. Gevorg Sargsyan

Department of Economics and Finance

College of Business



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Participating in research has been the most important and rewarding experience I've had the privilege to experience and do during my time at Lamar University. I have learned skills and frameworks vital to my future career as an educator; I've also learned how to apply the knowledge I am learning in various classes to my research and future career. Truly, my experience in research is not one I can express enough gratitude towards, as it truly has solidified two of my greatest passions- research and education.

Margo Eugenio, majoring in Teacher Education

This organization thoughtfully immerses undergraduate students into the wonderful world of research. Following the conduction of said research, Lamar's HABSEB conference was full of scholarly treats from across the world, attesting to the connections that can be made through research.

Chaley Chekley, majoring in Teacher Education



OUR opened the door for me to conduct research. I was very hesitant and did not know where to begin but Dr. Sargsyan, Dr. Bahrim, and Ms. Erwin were there every step of the way. I am extremely grateful to have received an award at the HASBSEB conference and encourage other students to also step out of their comfort zone and perform research. The places it can take you are truly endless.

Taliah Belcher, majoring in Economics and Finances

9th Annual HASBSEB Award Winners



Best non-OUR sponsored Research Project – In-progress

Winner: Zainab Almohsin – Major in Deaf Education

Mentor: Dr. Millicent Musyoka

Research in Deaf Studies

“Understanding Deaf Saudi Mothers Experiences: A Three-Dimensional Narrative Inquiry Structure.”

Department of Deaf Studies and Deaf Education — COFA&C



Runner-up: Louis Bryant – Major in Mechanical Engr. and Mathematics

Mentors: Dr. Margot Gage Witvliet and Dr. Stuart Wright

Research in Environmental Health

“Examining Trends (2018-2022) in TCEQ Air Emission Event Data That Occurs Near Charlton-Pollard Elementary School.”

Department of Sociology, Social Work and Criminal Justice — COAS

Best non-OUR sponsored Research Project – Early phase

Winner: Jasmine Boone – Major in Corporate Communications

Mentor: Dr. Andre Favors

Research in Symbolism in Commercials

“An Analysis of Pepsi’s ‘Live for Now’ Commercial via Burkeian Dramatistic Lens.”

Department of Communication and Media — COFA&C



Best Presentation in the Study Abroad Contest

Winner: Emily Alvarez

Major in Business

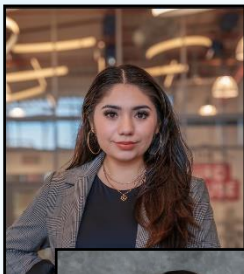
AND

Winner: Miriam Chavez

Major in Business

Mentors: Dr. Gevorg Sargsyan and Dr. Komal Karani

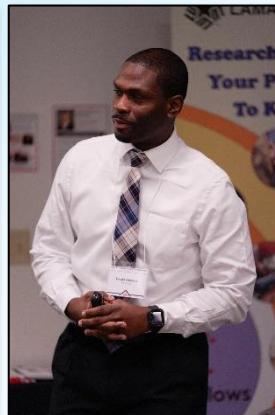
“Study Abroad at the University of Alicante, Spain”



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Attending the conference enabled me first to overcome my nervousness about presenting and sharing my work. Also, questions from the audience expanded my research thoughts and gave me insights into my ongoing research and possible future research agenda.

Zainab Almoshin, majoring in Deaf Studies and Deaf Education

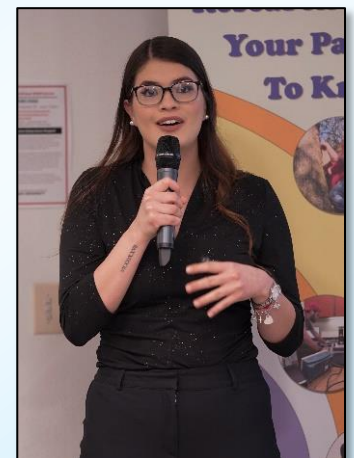


Forums such as the HASBSEB Conference are designed to provide students an opportunity to present their research – but also an opportunity for attendees to see the challenges and solutions materializing through-out humanity.

Louis D. Bryant IV, majoring in Mechanical Engineering and Mathematics

It was a pleasure to present and to expand my research for the HASBSEB Conference. The conference allowed me to essentially do a deep dive in which I expanded my knowledge regarding racial inequity and disparity and how that is displayed in elements of media.

Jasmine Boone, majoring in Corporate Communication



Lamar VIP present to O.U.R. Conferences



Dr. Brian Craig
Dean of College of Engineering



President of Lamar University,
Dr. Jamie Taylor



Dr. Don Warren

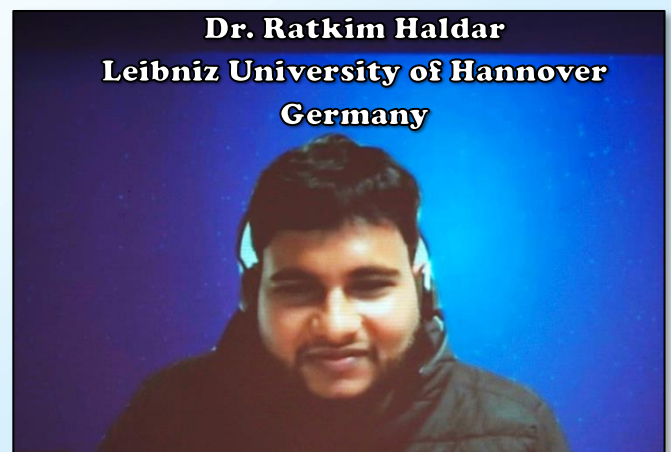


Dr. Lynn Mauer
Dean of College of Arts and
Sciences

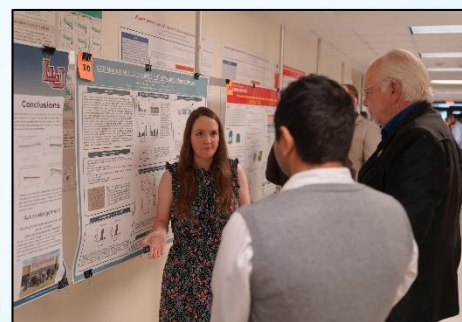
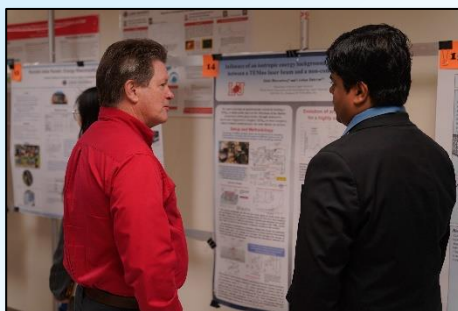
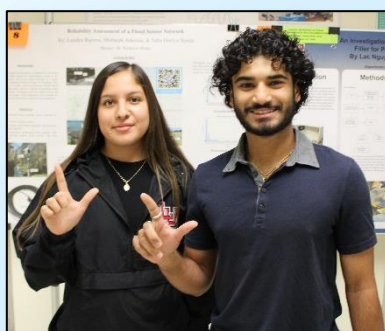


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Thank you to our Special Guest Speakers



Broad participation at the TX STEM Conference



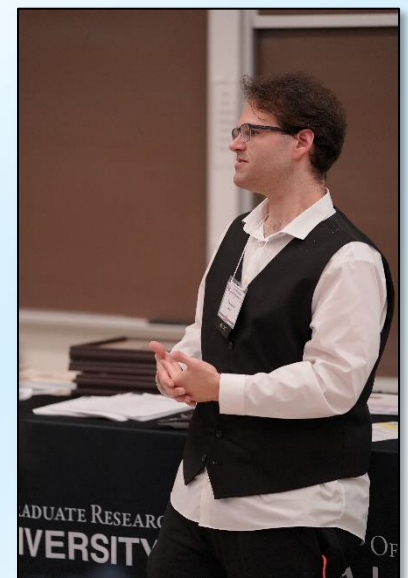
Broad participation at the HASBSEB Conference



SURF Students at the TX STEM Conference

Evaluation of Pin Fretting in the Electronic Connectors Using Vibration Shaker

By Jacob William Smith
Mentor Dr. Sushil Doranga
College of Engineering, Lamar University





The Effects of Positive Mood and Stereotype Threat on Memory Recall

Discipline of Research: Human Behavior

Name: Lily Yoder
Email Address: lyoder@lamar.edu
Department: Psychology
Faculty Mentor: Dr. Kirk
Faculty Mentor Email: kirkee@lamar.edu
Faculty Mentor Department: Psychology

SURF Students at the HASBSEB Conference



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Beck Fellows at The 10th Texas STEM conference



Presidential Fellows at The 9th HASBSEB Conference



Dr. Jay Prigmore, the Keynote Speaker at the Texas STEM Conference



Keynote Speaker

The 10th Annual Texas STEM Conference

Archer – Physics Building

November 5, 2022

9:00 – 10:00 a.m.

Dr. Jay Prigmore

**Electrical Quality Engineer
Technical Program Manager
at Google Inc.**

Biography

Dr. Jay Prigmore received his bachelor's degree in electrical engineering from Lamar University and his M.S. and Ph.D. degrees in electrical engineering from Arizona State University. His research focus for all three degrees was in Power Engineering.

He is presently employed at Google Inc. as an Electrical Quality Engineer - Technical Program Manager (TPM) but began his Google employment as an Electrical Field Reliability - TPM. Prior to his employment at Google Inc., he was employed by Exponent Inc. and performed numerous failure analysis and root cause investigations on electrical power equipment. Upon graduation he was employed at G&W Electric Company where he was responsible for short-circuit protection devices, their manufacture, and applications.

Dr. Prigmore developed a peer-reviewed arc flash mitigation device which won the "product of the year" in electrical safety. He is a founding and principal member of NFPA 78 and 1078 which provide guidance on performing electrical inspections and the qualifications of electrical inspectors, respectively. Dr. Prigmore has published more than 20 peer-reviewed articles and has written two book chapters. He is actively involved in IEEE standards meetings, NFPA committees, and CIGRE workgroups. Dr. Prigmore is a licensed professional engineer in various states, and he is certified to climb wind turbines.



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The 9th Annual HASBSEB Conference

KEYNOTE SPEAKER

Professor Dr. Juan Llopis

Professor (Catedrático) of Business Organization
Director of Institutional Relations and Projects
University of Alicante

9:00 a.m. – November 19th, 2022 –
Landes Auditorium – Galloway Bldg.

LECTURE: International and Competitive Challenges Business Management

Juan Llopis graduated with honors in Business Studies and received his PhD in 1991 from the University of Alicante. Llopis became full professor of Business Organization at University of Alicante in 2002. He was the Dean for faculty of Economics and Business from 2006 to 2012 and next, the vice-president of the University of Alicante. Since January 2021, Llopis has held a director position of the Institutional Relations and Projects.

Llopis has authored or co-authored 15 books, 32 chapters in books, 160 papers published in academic and professional journals, and 120 papers in national and international academic and professional workshops and conferences on Management and Business topics. He is a member of 15 international research projects, 20 public research projects, and 100 private research projects. He is a member of in 27 International Editorial Advisory Boards and is referee for 50 International Business Management Journals. He was also a member of 25 evaluation committees for PhD dissertations in different universities.

Llopis holds professional consulting experience for many private firms and public institutions. He is a prominent member of the Management Board of “Circle of Economy of the Alicante’s Province”, and esteem member of the Advisory Council of Sabadell East Bank. He will be speaking on international and competitive challenges that face business management in the modern world.



Dr. Llopis, UA vice-President
welcomes Dean French of
Lamar’s College of Business at
University of Alicante, Spain
on June 3, 2022.

Special Guest Speaker

The 9th Annual HASBSEB Conference

Landes Auditorium – Galloway Building

November 19, 2022

3:15 –3:45 p.m.

J Donald Warren PhD CPA

**Director, School of Accounting &
Information Systems of the College of Business
Ben J. Rogers Chair and Professor of Accounting**



Biography

J. Donald Warren, Jr., PhD, CPA, is the Director, School of Accounting & Information Systems in the College of Business at Lamar University located in Beaumont, Texas and the Ben J Rogers Chair and professor of accounting. Prior to joining Lamar University, he was the Director, Master of Science in Professional Accountancy and Schlobach Distinguished Chair in Accounting and professor of accounting in the School of Management at Marist College located in Poughkeepsie, New York. He previously taught in the University of Hartford and Rutgers Business School. At Rutgers, he served as the Director of the Master of Accountancy in Financial Accounting and continues to serve as a Research Fellow and a member of the Advisory Board for the Rutgers Business School Continuous Auditing & Reporting Laboratory. Don retired from PricewaterhouseCoopers LLP after a career of 31 years. He served in many capacities with the firm, including being responsible for the direction of the IT audit practice and serving as a national consulting partner on accounting and auditing matters and the firm's liaison to the Securities and Exchange Commission. His other work experience includes the US Government Accountability Office and the Financial Accounting Standards Board. His research interests include continuous audit methodologies/processes and their related technologies as well as emerging technologies in accounting and auditing. He is a member of the American Accounting Association, American Institute of Certified Public Accountants, the Institute of Management Accountants Internal Control and ISACA.

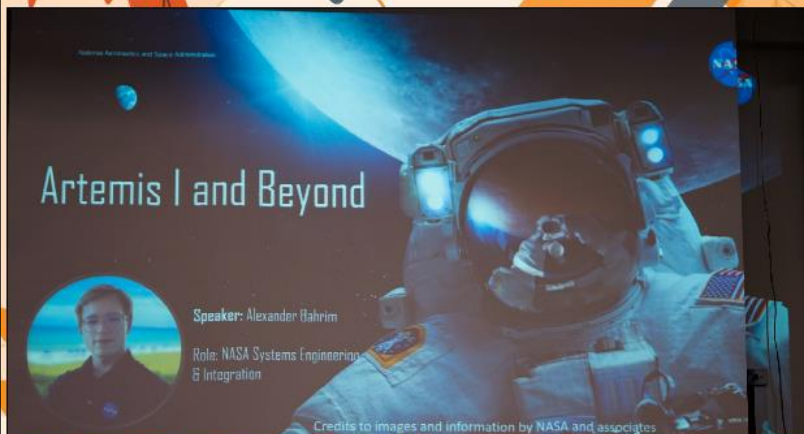


10th Texas STEM Conference

Special Guests Speakers



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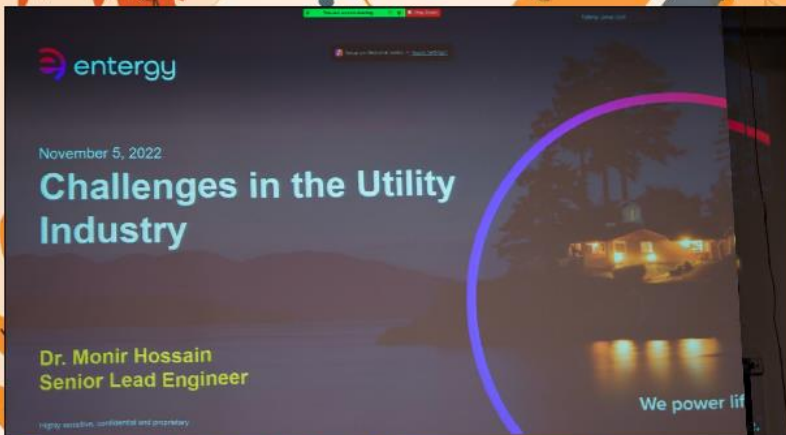
Mr. Alexander Bahrim
Systems Engineer at NASA
Johnson Space Flight Center

10th Texas STEM Conference

Special Guests Speakers



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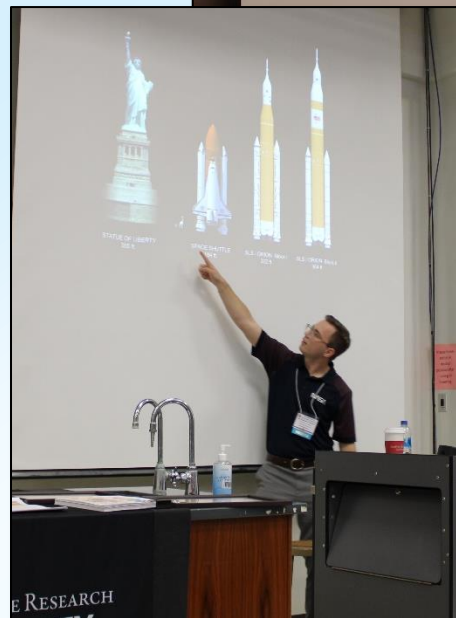


Mr. Monir Hossain
Senior Lead Engineer at
Entergy



Mr. Alexander Bahrim

Systems Engineer at NASA
Johnson Space Flight Center



Mr. Monir Hossain

Entergy



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10th Texas STEM Conference



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Doctoral Candidates at Lamar University



Mr. Rishi Bharadwaj
Optoelectronics

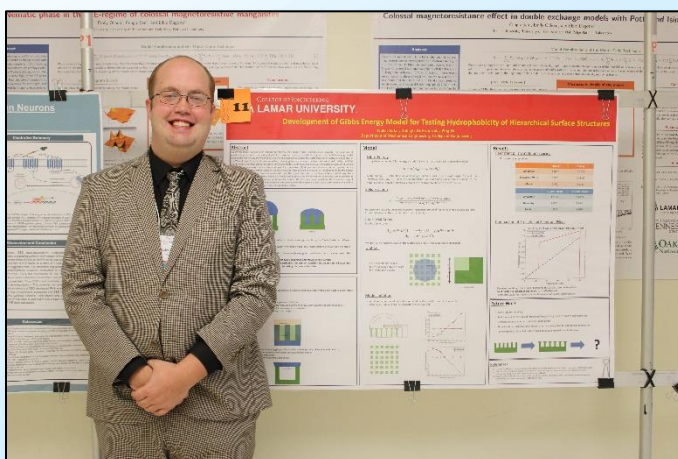
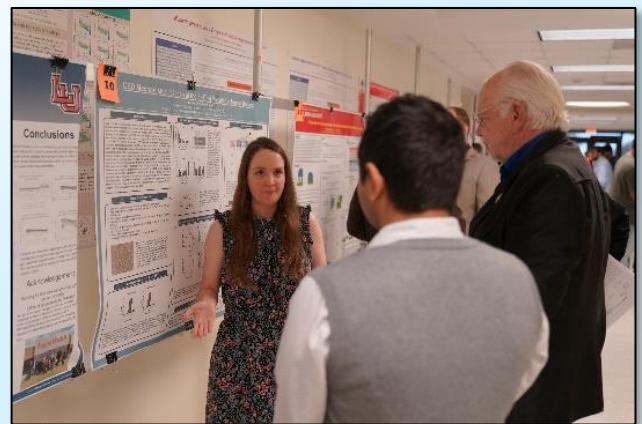


**Mr. Rahagir
Ridwan Anik**
Mechanical Engr.



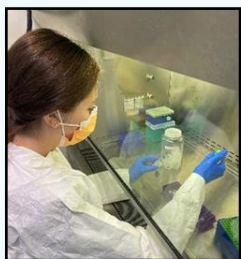
**Mr. Hari Lal
Kharel**
*Civil and
Environmental Engr.*

Master Level Students



Invited Guests at the O.U.R. Conferences

Fall 2022



Ashley Driscoll

Briana Ortiz



**The University of Texas Medical Branch at
Galveston, TX**



Kayla Meyers

University of Texas at Arlington, TX

Dr. Ratkim Haldar

**Alexander von Humboldt Fellow
Leibniz University of Hannover, Germany**



Dr. Okafor Ekene Gabriel

**Research Scholar
University of Arkansas, Fayetteville, AR**

Monir Hossain

Senior Power Systems Engineer at Entergy



Invited Guest Speakers

Lamar Alumni in Graduate Schools



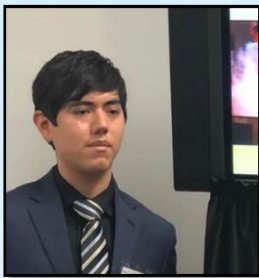
Ben Morales, Ph.D. candidate

Louisiana State University, Baton Rouge, LA



Dylan Palmer, Ph.D. candidate

Colorado School of Mines, Denver, CO



Daniel Quispe, Ph.D. candidate

Northwestern University, Chicago, IL



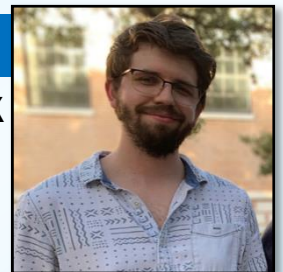
Nurul Azam, Ph.D. candidate

Auburn University, Auburn, AL



Rebekah Schilberg

University of Texas, Austin, TX



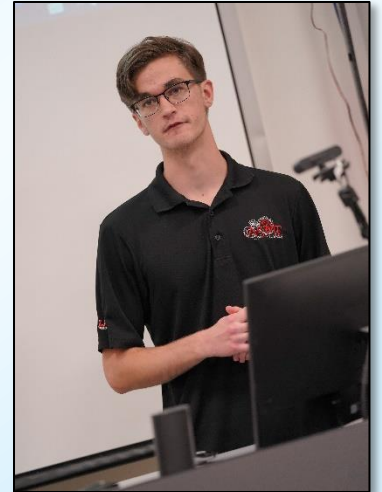
Tyler Nelson, Ph.D. candidate

Rice University, Houston, TX



David Quispe, Ph.D. candidate

Arizona State University, Tempe, AZ

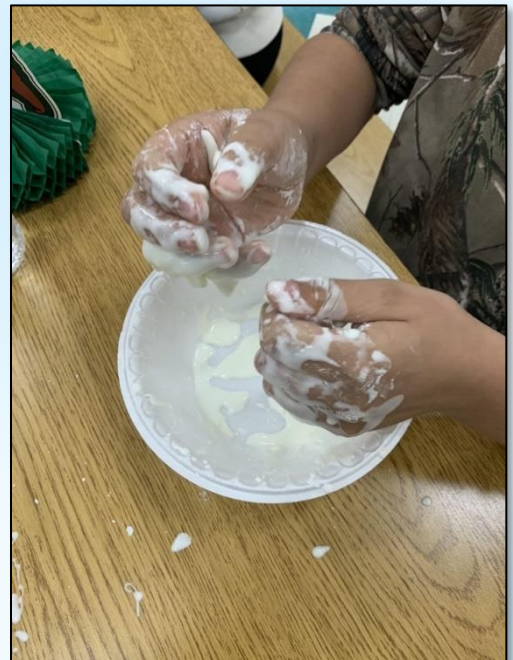


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Becky & Chuck Mason STEM Initiative Project

Using a 5E Lesson Plan to Teach 5th Grade Science
with Ms. Itzanami Madrid and Dr. Mamta Singh



2022-2023 OUR Grant Recipients

O.U.R. Award Winner



Lexus Wilkerson

Major in Accounting

Mentors: Dr. Agim Kukeli
Instructor of Economics
Dr. Dan French
Dean of College of Business
Professor of Business

O.U.R. winner with the HASBSEB Project

"The Dynamics of Crowdfunding: Investigation of the Effect of Investor's Sentiment."



O.U.R. Award Winner



Muneeb Akhtar

Major in Biology

Mentor: Dr. Matthew P. Hoch
Associate Professor of Aquatic and Microbial Ecology
Director, Center of Coastal and Marine Studies
Department of Biology

O.U.R. winner with the STEM Project

"Molecular Microbial Testing of the Islamic Hadith to Wash a Dog Licked Plate with Soil."



O.U.R. Award Winner

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Heena Karani

Major in Physical Chemistry

Mentor: Dr. Sylvestre Twagirayezu
Associate Professor of Chemistry

O.U.R. winner with the STEM Project

*"Conformational Studies of Perfluorooctanoic Acid (PFOA)
in the Presence of Molecular Helicity."*



O.U.R. Award Winner

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Amber Maredia

Major in Biology

Mentor: Dr. Ian Lian
Associate Professor of Biology

O.U.R. winner with the STEM Project

*"Effect of Microplastics on the Wound-Healing
Ability of HaCaT and 3T3 Cell Lines."*



O.U.R. Award Winner

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Aaron Martinez

**Major in Electrical Engineering
and Physics**

Mentor: Dr. Bogdana Bahrim
Professor of Physics

O.U.R. winner with the STEM Project

*"Study of H-Lateral Collisions with Ag(111) Metal
Surfaces, Covered by Na Adsorbates."*



O.U.R. Award Winner

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LAMAR UNIVERSITY



Justin Ramirez

Major in Electrical Engineering

Mentors: **Dr. Binod Nainabasti**
Instructor of Physics
Dr. Cristian Bahrim
Professor of Physics

O.U.R. winner with the STEM Project

"Do Lecture Quizzes Act as a Motivating Factor for Students' Success?"



O.U.R. Award Winner

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LAMAR UNIVERSITY



Kimberlie
Travelstead

Major in Environmental Science

Mentors: **Dr. Matthew P. Hoch**
Associate Professor of Aquatic and Microbial Ecology
Director, Center of Coastal and Marine Studies
Department of Biology
Dr. William R. Miller
Director of Biological Research
Department of Biology and Chemistry
Baker University, Baldwin City, KS.

O.U.R. winner with the STEM Project

"Jardigrades in the Wind?"



O.U.R. Award Winners

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LAMAR UNIVERSITY



Nicholas Wade



Joshua Mallari

Major in Computer Science

Mentor: **Dr. Stefan Andrei**
Professor of Computer Science

O.U.R. winner with the STEM Project

"The Viability of Using Solar Panels to Improve the Efficiency of EV Batteries."



O.U.R. Award Winner



Jonah Watts

Major in Mechanical Engineering
and Physics

Mentor: **Dr. Bogdana Bahrim**
Professor of Physics

O.U.R. winner with the STEM Project

*"Local Effects Induced by Kdatoms on
Noble Metal Surfaces."*



O.U.R. Award Winner



Colby White

Major in Biology and Nursing

Mentor: **Dr. Ashwini Kucknoor**
Associate Professor of Biology

O.U.R. winner with the STEM Project

*"Tetraspanin Gene Knock-Down and Exosome Formation In
Tritrichomonas foetus, a Cattle Pathogen."*



O.U.R. Award Winner



Lily Yoder

Major in Psychology

Mentor: **Dr. Edythe Kirk**
Associate Professor of Psychology

O.U.R. winner with the STEM Project

*"The Effects of Fatigue and Self-Esteem on
Suggestibility."*



O.U.R. Award Winner



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LAMAR UNIVERSITY



**Jennifer
Arredondo**

Major in Industrial Engineering

Mentor: Dr. Robert Kelley Bradley
Assistant Professor of Industrial Engineering

O.U.R. winner with the STEM Project

*"Developing Engineered Silicone Ferroelectrets for
Bending Motion."*



O.U.R. Award Winner



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LAMAR UNIVERSITY



Noah Bonnette

Major in Mechanical Engineering

Mentor: Dr. Robert Kelley Bradley
Assistant Professor of Industrial Engineering

O.U.R. winner with the STEM Project

*"Investigating Metal Micro-Casting of Carders to
Expand Single Wall Carbon Nanotube Research Capabilities."*



O.U.R. Award Winner



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LAMAR UNIVERSITY



Evelyn Hardy

Major in Mechanical Engineering

Mentor: Dr. Chun-Wei Yao
Associate Professor of Mechanical Engineering

O.U.R. winner with the STEM Project

*"Effects of 3D Printed Bouligand Structures with Different
Pitch Angles on Material's Dynamic Field Strength."*



O.U.R. Award Winner



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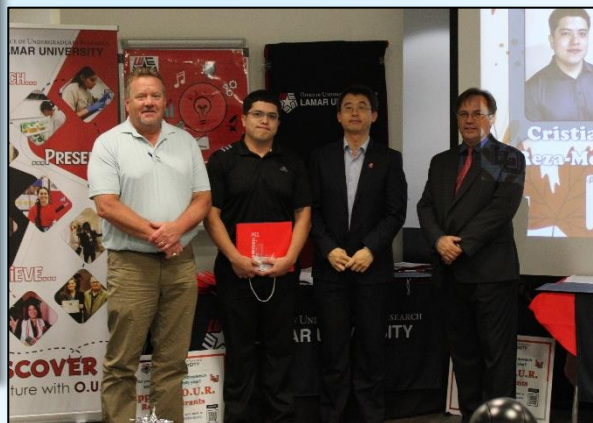
**Cristian
Reza-Mora**

Major in Chemical Engineering

Mentor: Dr. Qiang Xu
Professor of Chemical Engineering

O.U.R. winner with the STEM Project

*"Modeling and Simulation of Integrated Nuclear and Water
Electrolysis Process for Hydrogen Source Generation."*



O.U.R. Award Winner



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Coby Vidrine

Major in Chemical Engineering

Mentor: Dr. Robert Kelley Bradley
Assistant Professor of Industrial Engineering

O.U.R. winner with the STEM Project

*"Investigation of Microstructures for Usage in Drug Delivery
for Atherosclerotic Plaque Reduction."*



O.U.R. Award Winner



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LAMAR UNIVERSITY



Nikhil Patel

Major in Biology

Mentor: Dr. Shannon L. Jordan
Assistant Professor of Health and Kinesiology

O.U.R. winner with the STEM Project

*"Oxidative Stress in the Respiratory System due to
Vaping Nicotine."*



O.U.R. Award Winner



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Maryah Javed

Major in Biology

Mentors: Dr. Mamta Singh
Associate Professor of Teacher Education
Dr. Tilisa Thibodeaux
Dean of the Reaud Honors College & TALH

O.U.R. winner with the HASBSEB Project

"Assessing the Awareness, Knowledge, and Understanding of Flossing among Pre-Dental Students and Pre-Service Teachers."



O.U.R. Award Winner



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LAMAR UNIVERSITY



Itzanami Madrid

Major in Biochemistry

Mentor: Dr. Mamta Singh
Associate Professor of Teacher Education

O.U.R. winner with the HASBSEB Project

"Are Preservice Teachers Knowledgeable About Climate Change to Implement in their Future Classrooms?"



O.U.R. Award Winner



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**Cindy R.
Sosa Castro**

Major in American Sign Language Teaching

Mentor: Dr. Millicent M. Musyoka
Assistant Professor of Deaf Studies and Deaf Education

O.U.R. winner with the HASBSEB Project

"Capturing the Stories of Deaf Individuals of Color on College and Career Aspirations to Improve Advising and Mentoring."



O.U.R. Award Winner

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LAMAR UNIVERSITY



Major in American
Sign Language



Aniya Crawford



Ethan Honza



Haley Perkins

O.U.R. winner with
the HASBSEB Project

*"Leveling Up: Obstacles to Sign
Language Interpreting
Certification Advancement."*

Mentors: Dr. Zanthia Smith
Associate Professor of Speech and Hearing Sciences
Program Director for BA-ASL program
Mr. Douglas C. Williams, Jr.
Instructor of Deaf Studies and Deaf Education



O.U.R. Award Winner

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LAMAR UNIVERSITY

Major in American Sign Language
Interpreting



Omar Ramos

Mentor: Dr. Zanthia Smith
Associate Professor of Speech and Hearing
Sciences
Program Director for BA-ASL program

O.U.R. winner with the HASBSEB Project

*"Deaf Latino's Experiences in Postsecondary
Education."*



O.U.R. Award Winner

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LAMAR UNIVERSITY

Major in Speech and Hearing Sciences



Madison Smith

Mentor: Dr. Lekeitha R. Morris
Associate Professor of Speech and Hearing Sciences
Mentor: Dr. Millicent M. Musyoka
Assistant Professor of Deaf Studies and Deaf Education

O.U.R. winner with the HASBSEB Project

*"Speech-Language Pathology Graduate Students Knowledge,
Attitudes, and Perceptions Regarding Deaf Culture."*



2022-23 LURA Officers



President:
Zaid Mohammed
Major: Biology



Event Coordinator:
Tyler Stuck
Major: Physics and Math



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Major: Biology



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Major: Computer Science



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Major: Biochemistry



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Major: Biology



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LAMAR UNIVERSITY

Join our student organization:

Lamar University Undergraduate Research Association (LURA)

"LURA was founded in fall 2019 to fulfill the need for a community *by* and *for* undergraduate students to discuss, collaborate, and learn how effectively one can conduct research. The consistent quality and volume of research conducted by undergraduate students at Lamar University has made it clear that there is a need for an organization to act as a vital resource for building young researchers. Thus, LURA provides an academic forum that connects all level students from freshmen to seniors with their professors and mentors, and facilitates communication between Lamar undergraduates and their peers around the nation.

LURA is a platform for offering panel discussions about

- Research opportunities inside and outside Lamar,
- Better ways to deliver undergraduate research results in poster and oral presentations,
- Ways to perform peer-mentoring,
- Organizing workshops and panel discussions on various topics, including how to successfully apply to graduate schools.

LURA is the premier student organization at Lamar University for any undergraduate student interested in doing research. The Office of Undergraduate Research provides strong support and offers logistics to this student organization. Contact URALamar@gmail.com or visit the Office of Undergraduate Research—Chemistry 115A



For More Information about O.U.R. programs

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Please join us at O.U.R's
upcoming conferences

**THE 10TH ANNUAL
Undergraduate Research &
Creative activity - Expo 2023
April 14, 2023 - Setzer Center**

**THE 11TH Annual
Texas STEM Conference
October 28, 2023**

**The 10TH Annual
HASBSEB Conference
November 18, 2023**

