

# **10<sup>th</sup> ANNUAL REGIONAL STUDENT SCHOLARS FORUM**

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**April 4, 2025**



**Sponsored by the LSUS Foundation**

## **SPECIAL NOTES TO PRESENTERS AND MENTORS**

1. All events will be held in the University Center on the LSU Shreveport campus, located at One University Place in the 8400 block of Youree Drive (LA 1), Shreveport.
2. Please register and pick up your name tag at the Registration Table in the lobby of the University Center between 8:00 and 8:45 am.
3. A complimentary box lunch will be available for all presenters and mentors who wear an official event nametag. Our keynote speaker will address the conference during lunch in the Ballroom.
4. All slide presentations must be in PowerPoint.
5. Presenters should load PowerPoint presentations before the designated session begins.
6. Poster presenters should have their posters hung in the designated area by 8:45 am. All posters must fit within a 4' X 4' space. Easels and a mounting board will be provided. Posterboard numbers correspond to the poster number assigned to the presenter.
7. There will be a competition with first and second-place winners in each category: undergraduate oral presentations, undergraduate poster presentations, graduate oral presentations, and graduate poster presentations.

*Thank you to the LSUS Foundation for sponsoring  
the awards*

# PROGRAM

**8:00 – 8:45 am Registration**  
University Center Lobby (UC) (First Floor)

**8:30 – 8:45 am Judges and Moderators Meeting**  
University Center Room 223

**8:45 – 9:05 am Welcome Orientation**  
Dr. Robert Smith, LSUS Chancellor  
Dr. Sanjay Menon, Dean of Graduate Studies and International Students

<b>9:15 am – 10:30 am Session A: Graduate Oral Presentations 1: Webster Room</b>			
9:15	Wei Chen	Louisiana State University Shreveport	Machine Learning and Data Analytics Confirm the Association of Elevated Plasma Sulfides with Alzheimer’s Disease Mentor: Dr. Urska Cvek
9:30	Minseo Kim	University of North Texas	HE2C: A Holistic Approach for Allocating Latency-Sensitive AI Tasks across Edge-Cloud Mentor: Dr. Mohsen Amini
9:45	Rafi Uddin	University of Texas at Arlington	A state-of-the-art review and performance evaluation of novel do-it-yourself (DIY) air cleaner designs Mentor: Dr. Insung Kang
10:00	Alireza Hosseini	Tulane University	What Is the Impact of Dielectric Constants on the Solubility of n-Alkanes in Water and Vice Versa? Mentor: Dr. Henry Ashbaugh
10:15	Umisha Siwakoti	Louisiana Tech University	Scalable Double-Etching Fabrication of full Glassy Carbon fiber for multiple timescale Dopamine detection Mentor: Dr. Elisa Castagnola
<b>9:15 am – 10:30 am Session B: Graduate Oral Presentations 2: Red River Room</b>			
9:15	Sally Ayuk	University of Texas at Arlington	Multidimensional Factors Related to Housing Affordability Mentor: Dr. Jianling Li
9:30	Amber Youngblood	Stephen F. Austin State University	Strengths and Burdens of Caring for Juvenile Mental Health Patients Mentor: Dr. Emmerentie Oliphant
9:45	Camariyah Butler Anupama Mattahil	Alcorn State University	Motivations and Expectations of Students in the STEM MBA Program at an HBCU Mentor: Dr. Babu George
10:00	Dawn Jenkins	University of Texas at Arlington	Mother-Scholars in Pursuit of the Ph.D. – Year 1 Mentor: Dr. Ericka Roland
10:15	Katheryne Wood	Stephen F. Austin State University	Gender Differences in Mental Rotation and Short-Term Recall in Gender Minorities Mentor: Dr. Steven Estrada
<b>9:15 am – 10:45 am Session C: Undergraduate Oral Presentations 1: Theater</b>			
9:15	Seung Ho Jeon	Arkansas State University	Fairness in Faith-Based Finance: An Exploratory Analysis of Bias in AI-Persona Decisions Mentor: Dr. Hrishikesh Desai

9:30	Preston Miller	University of Texas at Tyler	Design and 3D resin printing of microfluidic chips for in-vitro drug release assays Mentor: Dr. Shih-Feng Chou
9:45	Carl Lindsey	Louisiana State University Shreveport	From Invasive to (Ad)sorptive: Salvinia Molesta Biomass for Methylene Blue Removal from Water Mentor: Dr. Jack Baricuatro
10:00	Joshua Yao	University of North Texas	Analysis and Benchmarks of Discrete-Time K-Winners-Take-All Neural Network Mentor: Dr. Pavlo Tymoshchuk
10:15	Samuel Echols	Southeastern Louisiana University	Managing Geo-spatial Data in Computer Science Mentor: Dr. Ghassan Alkadi
10:30	Ahmed Ghazawneh	Louisiana State University Shreveport	Effect of Ligand Substituents on Benzoyl Ring in Acylthioureas and Metal Complexes Mentor: Dr. Henry Nkabyo

**9:15 am – 10:30 am Session D: Graduate Oral Presentations 3: De Soto Room**

9:15	Tony Phan Kole Moulton Sarah Stokke	University of Texas at Tyler	Prescribing Smiles: A Creative Approach to Patient Well-Being Mentor: Dr. Katherine Stone
9:30	Thomas Cobham	Louisiana State University Shreveport	Physical Testing: Underlying Factors Influencing Development Differences Between the High School and Collegiate Level Mentor: Dr. Evan Reibsome
9:45	Xrystyan Lascano	University of Texas at Tyler	A Zero-Inflated Negative Binomial Analysis of Military Status, Health Outcomes, and Healthcare Access Mentor: Dr. Adam McGuire
10:00	Selma Markisic	Louisiana State University Shreveport	ACL Tears in Women's Sports Mentor: Dr. Evan Reibsome
10:15	Emmanuel Agyabeng	Texas A & M University - Commerce	G1P3/IFI-6 Suppresses Cytoplasmic DNA in Estrogen Receptor Positive Breast Cancer Cell line MCF-7 Mentor: Dr. Venu Cheriya

**9:15 am – 10:30 am Session E: Graduate Poster 1: Ballroom**

GR1	Farjana Akter Swarna	Arkansas State University	Measuring Firm-Level Climate Change Risk and Impact on Financial Decisions: A Copula-Based Analysis Mentor: Dr. Nanying Lin
GR2	Frederick T. Webb	Jackson State University	The Impact of Perceived Racism on Academic Persistence for African American Male College Students: Roles of Racial Identity and Coping Strategies Mentor: Dr. Eunkyung Yoon
GR3	Maddison Benge Emily DeGruise	Louisiana State University Shreveport	A Contextual Analysis of Reading Fluency Mentor: Dr. Kevin Jones
GR4	Cory Roberts Jessica Menyweather	Stephen F. Austin State University	Attitudes of Rural Seniors Towards Ambient Assistive Living Systems (AALS) Mentor: Dr. Christy Collins
GR5	Ruby Salas Ruta Dighe	University of Texas at Tyler	The Impact of Discrimination and Acculturative Stress on Latino Mental Health Mentor: Dr. Adam McGuire
GR6	Falon Costigan	Stephen F. Austin State University	Medical Practitioners Perceptions of Healthcare AI Mentor: Dr. Steven Estrada

**9:15 am – 10:30 am Session F: Undergraduate Poster 1: Ballroom**

UG1	Seung Ho Jeon	Arkansas State University	Future = AI + Database Collective Academic Database (CAD) to Manage AI in Academic Environments Mentor: Dr. H. Steve Leslie
UG2	Shreenithi Harikrishnan	LeTourneau University	Comparison of self-esteem between international and American students Mentor: Dr. Vicki Sheafer
UG3	Marilyn Huck	Louisiana State University Shreveport	The Academic Achievement of Students with Support Needs Mentor: Dr. Mary Margaret Lusk
UG4	Thomas Duong	University of Houston-Downtown	Taking Advantage of Advanced Placement (AP) Statistics for College Admission: A Study of High School Students in the Houston Area Mentor: Dr. Timothy A. Redl
UG5	Maddox Wofford	East Central University	Risk Management in Lending: Comparative Analysis of Banking Institutions & Lessons from the 2023 Banking Crisis Mentor: Dr. Germain Pichop
UG6	Karen Lewis	Louisiana Tech University	Perceptions of the Livestock Show Industry Among Louisiana Tech University Students Mentors: Dr. Mark W. Murphey and Dr. Katherine Welch
UG7	Madeline Counts	University of North Texas	Sustainability in Agritourism: A Consumer Education Perspective Mentors: Dr. Birendra KC and Dr. Xingyi Zhang
UG8	Saul Padilla	East Central University	Silicon Valley Bank's Risk Management Failure & Lessons Learned: A Case Study Mentor: Dr. Germain Pichop
UG9	Regina Wiggins	Louisiana State University Shreveport	The Impact Child Abuse has on Mental and Physical Health Mentor: Dr. Mary Margaret Lusk
UG10	Samuel Petta Jasmine Miles	University of Texas at Tyler	Identifying Barriers to Help-Seeking for Domestic Violence in East Texas Mentor: Dr. Erick Stocks
UG11	Amber Roberts	Louisiana State University Shreveport	Applied Behavior Analysis therapy has positive effects on children with Autism Spectrum Disorder Mentor: Dr. Brenna Griffen
UG12	Tiara Wright	Tarleton State University	Experience of Domestic Violence in Same Sex Households Mentor: Dr. Ebony Lang
UG13	Tiara Wright	Tarleton State University	Self-Sufficiency Skills for Survivors of Abuse. Mentor: Dr. Ebony Lang
UG14	Courtney Orf	Louisiana State University Shreveport	The Impact of Parenting Styles on Cognitive and Emotional Development Mentor: Dr. Mary Margaret Lusk
UG15	Savannah Mills	Louisiana State University Shreveport	Guilt and Shame got you down and you don't want to seek help? Past parenting experiences may be relevant. Mentor: Dr. Tracie Pasold
UG16	Mikayla Buenafe	Louisiana State University	Understanding how Differences in Caregiver Language Reinforcement during Play relate to Child Vocabulary Mentor: Julie Schneider

UG17	Marrah Winningham	Louisiana State University Shreveport	Adverse Childhood Experiences and Veteran Mental Health Mentor: Dr. Mary Margaret Lusk
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**10:30 am – 11:00 am COFFEE BREAK: Ballroom**

**11:00 am – 12:15 pm Session G: Graduate Oral Presentations 4: Webster Room**

11:00	Abigail Boykin	Louisiana State University Shreveport	A Culture in Collapse: The Impact of World War II on Louisiana's Isleño Community Mentor: Dr. Evan Reibsome
11:15	Andres Rochin	University of Texas at Tyler	Beyond Permissible Dissent: Black Power and the Cold War Liberal Consensus Mentor: Dr. Colin Snider
11:30	Noah Moser	Louisiana State University Shreveport	Motivations for Murder: The Political Roots of The St. Bartholomew's Day Massacre Mentor: Dr. Evan Reibsome
11:45	Craig Fuchs	Stephen F. Austin State University	What Are We Really Talking About?: A Case Study in Integrating Pop Culture Conversations and Public History Mentor: Dr. Paul Sandul
12:00	Mikal Barnes	Louisiana State University Shreveport	Dr. C. O. Simpkins and the Foundations of an Intergenerational Movement Mentor: Dr. Gary Joiner

**11:00 am – 12:15 pm SESSION H: Graduate Oral Presentations 5: Red River Room**

11:00	Sarah Sellen	Louisiana Tech University	Advancing Glassy Carbon Microelectrode Arrays for Multimodal Neural Interfaces Mentor: Dr. Elisa Castagnola
11:15	Aalok Sharma Kafle	Lamar University	Investigating DEM Resolution Effects on Watershed in Low-Relief Watersheds Mentor: Dr. Venkatesh Uddameri
11:30	Hope Hutson	Louisiana Tech University	Biomarker identification for glioblastoma brain tumors through mass spectrometry-based proteomic analysis of glioblastoma-derived extracellular vesicles and healthy brain cells Mentor: Dr. Gergana Nestorova
11:45	Kushum KC	Lamar University	Evolving Precipitation Patterns in Coastal Urban Centers: A Bayesian Perspective Mentor: Dr. Annette Hernandez
12:00	Tahmina Anondi	Louisiana State University Shreveport	Monitoring air pollution in Los Angeles through Satellite Mentor: Dr. Subhajit Chakrabarty

**11:00 am – 12:15 pm SESSION I: Graduate Oral Presentations 6: Theater**

11:00	Lukas Harville	Louisiana State University Shreveport	Preserving History through Cinema Mentor: Dr. Evan Reibsome
11:15	Latesha Dickson	Louisiana State University Shreveport	If a Picture is Worth a Thousand Words, How Many Pictures is a Word Worth? Mentor: Dr. Evan Reibsome
11:30	Khadija Saleem	University of Louisiana at Lafayette	Phonological Contrast between Urdu and English Mentor: Dr. Elena Babatsouli
11:45	Louise Linh Tran	Louisiana State University Shreveport	Chasing Connection, Finding Loneliness Mentor: Dr. Evan Reibsome

12:00	John Faulkner	University of Texas at Tyler	Years of Lead: Cold War terror, Aldo Moro, and Italy's struggle for peace Mentor: Dr. Mandy Link
<b>11:00 am – 12:00 pm    SESSION J: Undergraduate Oral Presentation 2: De Soto Room</b>			
11:00	Julia Thompson	Louisiana Christian University	Smackdown Strategies: The Role of Public Relations in Shaping the Professional Wrestling World Mentor: Dr. Beth Clarke
11:15	Huzaifa Islam	Louisiana State University Shreveport	Configurational E, Z Isomerism in Transition Metal Complexes derived from Asymmetrically Substituted Acylthioureas Mentor: Dr. Henry Nkabyo
11:30	Alyssa Major	Southeastern Louisiana University	Survey of Interpolation Methods Mentor: Dr. Ghassan Alkadi
11:45	Bryleigh Wickham	Louisiana Tech University	PEDOT/CNT-coated glassy carbon microelectrode arrays (GC-MEAs) for real-time detection of neurotransmitters in the brain Mentor: Dr. Elisa Castagnola
<b>11:00 am – 12:30 pm    SESSION K: Graduate Poster 2: UC Upstairs Lobby</b>			
GR7	Sally Ayuk	University of Texas at Arlington	The Silent Consequences: restricted Civic Education for Black/African Americans Mentor: Dr. Jianling Li
GR8	Fahime Abbasinohoji	University of New Orleans	How effective are freshwater sponges in detecting heavy metal pollution in Louisiana's water systems? Mentor: Dr. Phoebe Anne Zito
GR9	Ray Anirban	Belhaven University	Determine the Role of FOXO1 In ANG2 Elevation AND HHT Pathology Mentor: Dr. Stryder Meadows
GR10	Okeke Odirachukwu	Louisiana Tech University	Machine Learning-Enhanced Synthesis of Carbon Quantum Dots for Heavy Metal Ion Detection Mentor: Dr. Teresa Murray
GR11	Muhammed Jawaad Zulqernine	University of Texas at Arlington	A Systematic Experimental Investigation on Damage Tolerance Enhancement of Conch Shell Inspired Multi-Material Composites Mentor: Dr. Shiyao Lin
GR12	Sunzid Hassan	Louisiana Tech University	Semantic Odor Source Localization via Visual and Olfactory Integrated Navigation Mentor: Dr. Lingxiao Wang
GR13	Joyeeta Khan	University of Arkansas for Medical Sciences	Discovery and investigation of Quinoline-3-Carbonitriles as a Novel Class of Tubulin Inhibitors Mentor: Dr. Amit K. Tiwari
GR14	Abdelrahman Garbie	University of Louisiana at Lafayette	Intelligent Material Design of Rhenium-Refractory Complex Concentrated Alloys Mentor: Dr. Jonathan Raush
GR15	James Campbell	University of Texas at Tyler	From Anemone to Coral: Establishing Nematostella vectensis as a Translational Model for Coral Disease Research Mentor: Dr. Tanya Brown
GR16	Kriti Sigdel	University of Texas at Tyler	Classifying and Forecasting Pothole Area Using Multilayer 1 Perceptron Model Mentors: Dr. Mena Souliman and Dr. Mayzan Isied

GR17	Toghrul Azizli	Tulane University	DFT Study of the Effect Surface Carbonates on Ethylene Epoxidation Mentor: Dr. Matthew M. Montemore
GR18	Sayla Prova	University of Texas at Tyler	Predictive Maintenance of Pavements: A Multilayer Perceptron Model for Patch Area Analysis Mentor: Dr. Mayzan Isied
<b>11:00 am – 12:30 pm    SESSION L: Undergraduate Poster 2: Ballroom</b>			
UG18	Maggie Ha	University of Houston-Downtown	Mathematical Analysis for Double Pendulum System Mentor: Dr. Jeong-Mi Yoon
UG19	Sneha Sharma Zehra Khan	University of Texas at Dallas	Behavioral Correlates of Semantic Inhibition Mentor: Dr. John Hart and Dr. Michael Motes
UG20	Kaitlyn Perkins	Louisiana State University	Harnessing prostate cancer cell dormancy to delay the lethal metastases Mentor: Dr. Shang Su
UG21	Reagan Shofner Aryanna Blakney	University of Texas at Tyler	Mutations in the sensor VraS histidine kinase alter Staphylococcus aureus virulence. Mentor: Dr. May H. Abdelaziz
UG22	Khubaib Islam	Louisiana State University Shreveport	Voltammetric Insights into Phenolic Quinonoid Interactions as a Prelude to Ultrashort-Chain PFAS Detection Mentor: Dr. Jack Baricuatro
UG23	Jordan Brooks	Louisiana State University	Investigating the Molecular Mechanisms of Drosophila Melanogaster Embryos Lacking Nucleoli Mentor: Dr. Patrick DiMario
UG24	Jack Howard	Louisiana State University Shreveport	Neutron Capture Studies with DANCE: Experimental Setup and Preliminary Results Mentor: Dr. Ahmad Taninah
UG25	Charlie Goodson	University of Texas at Tyler	Design and build of a flow-through in-vitro drug dissolution system with an integrated autosampler Mentor: Dr. Shih-Feng Chou
UG26	Nina Parvari	University of Texas at Arlington	Correlates of Antimicrobial Resistance in Soil Bacteria: Insights from Healthcare Settings Across Different Communities Mentor: Dr. Whitney Tholen
UG27	Lana Musa	Louisiana State University Shreveport	Substituted acyllthioureas as potential chelating agents for the separation and recovery of Pd(II), Pt(II), and Co(III) Mentor: Dr. Henry Nkabyo
UG28	Michael Miller Malcolm Goldsby	Louisiana State University Shreveport	Spectral Signatures of Attraction: UV-Vis Studies of the Interactions of Dihydroxyanthraquinones and Forever Chemicals Mentor: Dr. Jack Baricuatro

**12:30 pm – 1:30 pm Lunch & Keynote Speaker, UC Ballroom**

A box lunch is available for all registered attendees.

**“Generative AI in Research”  
Subhajit Chakrabarty, PhD**

Dr. Subhajit Chakrabarty is an Associate Professor in Computer Science and Program Director of the Master of Science in Computer Systems Technology at LSU Shreveport, where he also directs the Machine Learning Lab. He holds a PhD in International Business and a PhD in Computer Science. His experience spans multiple domains across industry, armed forces, and academia.

**1:30 pm – 3:00 pm Session M: Graduate Oral Presentations 7: Theater**

1:30	Dyuti Islam Wei Chan	Louisiana State University Shreveport	IBD Management: Insights from SAVANT, STABILITY, and IMPACT-IBD Mentor: Dr. Urska Cvek
1:45	Teresa Tarver	Stephen F. Austin State University	Faith in Action: A Solution-Focused Approach to Racial Healing in Communities: Beyond the Divide: Faith, Justice, and Healing Mentor: Dr. Emmerentie Oliphant
2:00	Md Aminul Islam	Louisiana Tech University	Aptamer-Functionalized Platform for Selective Bacterial Isolation and Rapid RNA Purification Using Capture Pins Mentor: Dr. Gergana Nestorova
2:15	Araf Mim Ahmed Smrity	University of Louisiana at Lafayette	Thermal Performance Improvement through Cu-Al <sub>2</sub> O <sub>3</sub> Hybrid Nanofluids: Experimental Insights and Molecular Dynamics Simulation Mentor: Dr. Peng Solomon Yin
2:30	Shani Griffin	Louisiana Tech University	Rosemary Leaf-Derived Nanovesicles: antioxidant potential and oxidative stress modulation in human dermal fibroblasts Mentor: Dr. Gergana Nestorova
2:45	Udaysinh Rathod	Louisiana State University Shreveport	Real-time Human Posture Detection and Prediction from Video Mentor: Dr. Subhajit Chakrabarty

**1:30 pm – 3:00 pm Session N: Undergraduate Oral Presentations 3: Red River Room**

1:30	Jo Hoffman	Centenary College	Steal from the Church, Give to Oneself: “Robin Hood and the Monk” as a Reflection of Tensions Between Peasants and the Church in Medieval England Mentor: Dr. Meg Sanders
1:45	Keirsten LeJeune	Louisiana Christian University	Everyone Hydes Mentor: Dr. Jeannie Gauthier
2:00	Athena Vasquez	Centenary College	Shakespeare in Americana: The Band's "Ophelia" As a Southern Retelling of Hamlet Mentor: Dr. Bellee Jones-Pierce

2:15	Emma Davis	University of New Orleans	The Absence of a Derridean Center in Gertrude Stein's "Rooms" in Tender Buttons Mentor: Dr. John Gery
2:30	Ana Elliot	Louisiana Christian University	The Interesting Dilemma of Olaudah Equiano; and Other Minority Writers of the 18th Century Mentor: Dr. Jeannie Gauthier
2:45	Landry Beard	Louisiana State University	High School Athletics: Community Amidst Segregation Mentor: Dr. Zevi Gutfreund
<b>1:30 pm – 3:15 pm Session O: Graduate Poster 3: UC Caddo Bossier Room</b>			
GR20	Sayla Prova	University of Texas at Tyler	Assessing the Performance of Asphalt Binders Modified with Recycled Facemasks: A Sustainable Approach in Pavement Engineering Mentors: Dr. Mayzan Isied and Dr. Mena Souliman
GR21	Katherine Eddings	University of Louisiana at Lafayette	Natural Climate Variability along the Northern Gulf Coast: An Attribution Analysis Mentor: Dr. Durga Poudel
GR22	Janie Davis	Lamar University	Developing and Calibrating a Water Balance Model for Texas and Louisiana Watersheds Mentor: Dr. Venkatesh Uddameri
GR23	Tareq Mahmud Ochi Jedeofor	Louisiana State University Shreveport	Detection of artificially generated images using CNN and ViT Mentor: Dr. Subhajit Chakrabarty
GR24	Aditya Chowdhury	University of Texas at Tyler	A Simplified Approach to Calculate the Pavement Condition Index (PCI) using Artificial Neural Network (ANN). Mentors: Dr. Mena Souliman and Dr. Mayzan Isied
GR25	Aditya Chowdhury	University of Texas at Tyler	Artificial Neural Network (ANN) Driven Model to Backcalculate the Elastic Modulus of Rigid Pavements using Falling Weight Deflectometer Parameters Mentor: Dr. Mayzan Isied and Dr. Mena Souliman
GR26	Sweta Singh Aaron Shanks	Louisiana State University Shreveport	Malware Detection using LSTM and Transformer Mentor: Dr. Subhajit Chakrabarty
GR27	Tanvir Ahmed	University of Texas at Tyler	Development of Physics-Guided Neural Networks for IRI Prediction in Jointed Plain Concrete Pavements Mentors: Dr. Mayzan Isied and Dr. Mena Souliman
GR28	Tanvir Ahmed	University of Texas at Tyler	Optimizing Asphalt Balance Mix Design with Facemask Reinforcement: A Rudimentary Study Mentors: Dr. Mayzan Isied and Dr. Mena Souliman
GR29	Mridula Mavuri	Louisiana State University Shreveport	Socioeconomic and environmental factors influencing lung cancer prevalence in USA Mentor: Dr. Subhajit Chakrabarty
GR30	Rajiv Pathak	University of Arkansas for Medical Sciences	CTL-204: A Novel Quinolinone Derivative for Targeting Triple-Negative Breast Cancer Mentor: Dr. Ammit K. Tiwari

GR31	Wei Chan Dyuti Islam	Louisiana State University Shreveport	Machine Learning and Data Analytics Confirm the Association of Elevated Plasma Sulfides with Alzheimer's Disease Mentor: Dr. Urska Cvek
GR32	Md Shaba Sayeed	Arkansas Tech University	Detecting Malicious URLs in Brushing Scams: A Machine Learning Approach with Human-Centered Cybersecurity Mentor: Dr. Indira Dutta
GR33	MD Shaba Sayeed	Arkansas Tech University	AI-Driven Solution: Empowering Seniors Against Cyber Threats Mentor: Dr. Indira Dutta
GR34	Pearl Priyadarshini Kandikatla Bandi Venkata Sri Sai Satya Varun	Alcorn State University	Flight Delay Prediction using Machine Learning Mentor: Dr. Ping Zhang
GR35	Dyuti Islam Wei Chan	Louisiana State University Shreveport	Machine Learning-Based Consumer Price Index (CPI) Prediction for Economic Forecasting Mentor: Dr. Marjan Trutschl
GR36	Kriti Sigdel	University of Texas at Tyler	Development of Machine Learning Model to Estimate California Bearing Ratio (CBR) of Pavement Subgrade Material Mentors: Dr. Mena Souliman and Dr. Mayzan Isied
GR37	Bhavya Kaanadka Purushotham	Alcorn State University	AI-Driven Alumni Engagement and Networking Platform Mentor: Dr. Ping Zhang
GR38	Sharmin Nahar	Louisiana State University Shreveport	Empowering Early Diagnosis of Chronic Heart Disease with Machine Learning and Lifestyle Analysis Mentors: Dr. Zhonghui Wang, Dr. Xi Jin, and Dr. Subhajit Chakrabarty

**1:30 pm – 3:15 pm Session P: Graduate Poster 4: UC Upstairs Lobby**

GR39	Nuzhat Tabassum	University of Louisiana at Lafayette	The Diffusion of Generative AI in Education: Impact of Perceived Effectiveness on Communication Mentor: Dr. T. Phillip Madison
GR40	Ruta Dighe Ruby Salas	University of Texas at Tyler	The Impact of Trauma on Social Isolation and Loneliness Mentor: Dr. Adam McGuire
GR41	Jennifer DeLeon	Louisiana State University Shreveport	LA Cervix Care: Enhancing Cervical Cancer Prevention in Louisiana – Identifying Barriers to Care for Women at Increased Risk of Cervical Dysplasia Mentor: Dr. Deborah Smith
GR42	Ann Francis	University of Texas at Tyler	Characterization of the SLC7A5/SLC3A2 Amino Acid Transporter in Human Pleural Mesothelial Cells Mentor: Dr. Torry A. Tucker
GR43	Kathryn Ruckstuhl	Louisiana State University Health Sciences Center Shreveport	Disparities in cervical cancer prevention among non-Hispanic Black and Hispanic women Mentor: Dr. Deborah Smith
GR44	Eddie Cervantez	University of Texas at Tyler	Prevalence of retinal disease in people with Down syndrome in the IRIS Registry Mentor: Dr. Michael Puente

GR45	Patricia Pichilingue Reto	Louisiana State University Shreveport	Barriers and facilitators towards HIV Pre-Exposure Prophylaxis (PrEP) prescription among healthcare providers in Northwest Louisiana Mentor: Dr. Deborah Smith
GR46	Itzel Montoya	University of Texas at Tyler	Characterizing Human Aurora Kinase-A Inhibitors Mentor: Dr. May Abdelaziz
GR47	Surabhi Naik	University of Texas at Arlington	Adaptive and Predictive Physical Therapy Interventions Utilizing Real-Time Glycemic Feedback from the Dexcom G7 CGM for Elderly Diabetic Patients Mentor: Dr. Prasanthi Tondapu
GR48	Saloni Sood	University of Arkansas for Medical Sciences	Design and Development of NG-02: A Novel Benzo[d]imidazole Derivative Targeting Estrogen Receptor Alpha (ER $\alpha$ )-Positive Breast Cancer Mentor: Dr. Amit K. Tiwari
GR49	Nicole Hall	Louisiana State University Health Sciences Center Shreveport	Does Sex Matter? Murine Model of Traumatic Brain Injury During Chronic Methamphetamine Exposure Reveals Sex Differences in Acute Behavioral Outcomes Mentor: Dr. Nicholas Goeders
GR50	Maria Veronica Piedra	University of Arkansas for Medical Sciences	Design, Synthesis, and Evaluation of Novel 6-(1H-indol-3-yl)-3-phenyl-[1,2,4]triazolo[3,4-b][1,3,4]thiadiazoles as Anticancer Agents Targeting Bcl-2 Mentor: Dr. Amit K. Tiwari
GR51	Angela Amponsah	Texas A&M University – Commerce	Comparative Analysis of Anticancer Effects Among Different Cultivars of Bitter Melon ( <i>Momordica charantia</i> ) Mentor: Dr. Venugopalan Cheriyaath
GR52	Akshat Agrawal	Louisiana State University Shreveport	Oxidative Imbalance and Environmental Exposure: The Role of Heavy Metals and Volatile organic compounds in Modulating Oxidative Balance Mentor: Dr. Mohammad Alfrad Nobel Bhuiyan

**1:30 – 3:15 Session Q: Undergraduate Poster 3: UC Ballroom**

UG31	Carl Robbins	Louisiana Tech University	The Effects of Microgravity on Serotonin in the Brain Mentor: Dr. Elisa Castagnola
UG32	Bhavya Sarda	Louisiana State University Shreveport	Unlocking the Happiness Neurotransmitter: Spectroscopic and Computational Analyses of Metal-Ligand Interactions between Serotonin and Diamagnetic Ions Mentor: Dr. Jack Baricuatro
UG33	Richard Elfert	Louisiana State University	Effects of Climate Change on Disease Exposure and Infection Probability Mentor: Dr. Bret Elderd
UG34	Thach Chau	Centenary College	Environmental Microbiome Impact on College Student Mental Health Mentor: Dr. George Tiller
UG35	Aidan Andrews A'mani Pillips	Louisiana State University Shreveport	Effect of the Microbiome on the Efficacy of Anti-Epileptic Drugs in <i>Caenorhabditis Elegans</i> Mentor: Dr. Stephanie Villalba

UG36	Abby Benton	Louisiana Tech University	The Effect of Angus and Brangus Genetics on Rib Eye Area In North Central Louisiana Utilizing Linear Regression Analysis Mentor: Dr. Mark Murphey
UG37	Tyler Davis	Louisiana State University Shreveport	Biogenic Catalysis: Transforming <i>Salvinia molesta</i> into a Sustainable Catalyst for Perfume Chemistry Mentor: Dr. Jack Baricuatro
UG38	Kayleigh Macumber Sophia Lindahl	Tulane University	Deconstructing the American Dream: Translating Coastal Retreat to Ecological Reclamation Mentor: Dr. Cordula Roser Gray
UG39	Taryn Pledger	LeTourneau University	Development of rainbow trout gill cell cultures for assessing the toxicities of copper and zinc Mentor: Dr. Scott Dyer
UG40	Grant Vavro	University of Texas at Dallas	Synthesis of a novel 2D halide perovskite to uncover structure property relationship Mentor: Dr. Kyle McCall
UG41	Henry Pudwill	Centenary College	Recovery of Nickel From Spent Batteries Using a Zero Waste Process Mentor: Dr. Dewan Rahman
UG42	Brooke Madsen	LeTourneau University	Development of a Lumbar Range of Motion Tracking System: Preliminary Study Mentor: Dr. Ko Sasaki

**3:15 pm – 3:40 pm    Networking and Open Poster: UC Ballroom**

**3:40 pm – 4:00 pm    Awards Ceremony: UC Theater**

# SHARE YOUR SCHOLARSHIP ACROSS THE WORLD IN THE

**LSUS** | Noel Memorial Library

## Scholarly Repository

### What is the LSUS Scholarly Repository?

- A digital home for students and faculty to preserve and showcase their academic work
- Check out at [lsus.dspacedirect.org/home](https://lsus.dspacedirect.org/home)

### Why Preserve your Research in the LSUS Scholarly Repository?

- Create a permanent portfolio of published work
- Index your work in Google Scholar
- Make your work discoverable with permanent URLs, Keywords, and specific metadata classifications

### What can I deposit in the Repository?

Papers	Visual Media
Slide Decks	Posters
Books	and More!



### Questions?

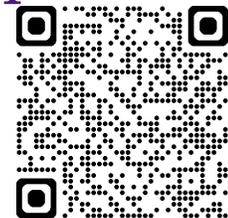


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### Upload Here



<https://lsus.libwizard.com/f/lsus-sr>

All participants in the Regional Scholars Forum are eligible to deposit in the Repository

**Planning Committee Members:**

Dr. Sanjay Menon – Professor of Management and Dean of Graduate Studies

Dr. Stephen Banks – Professor of Biological Sciences

Dr. Amy Erickson – Associate Professor of Biological Sciences

Dr. Brenna Griffen – Assistant Professor of Psychology

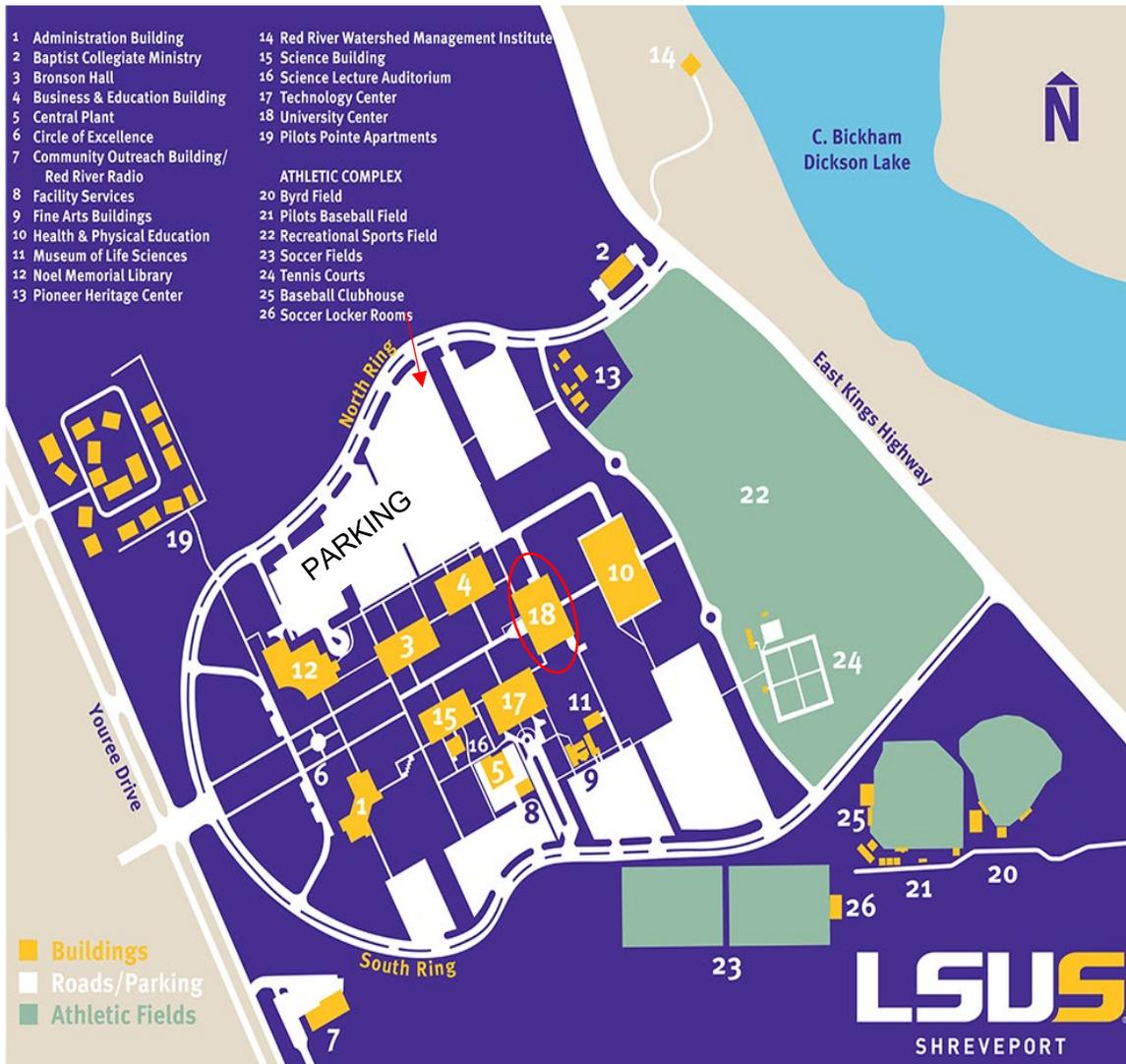
Dr. Melissa Hawthorne – Associate Professor in Education

Dr. Kevin Jones – Professor and Director of the Graduate Program in Psychology

Ms. Amanda Lewis – Assistant Vice Chancellor of Sponsored Research

Dr. Evan Reibsome – Assistant Professor of American Literature and Director of the MLA Program

Dr. Terence Vinson – Assistant Professor and Associate Director of MEDCI/MEDL Programs



# LSUS 10<sup>th</sup> Annual Regional Student Scholars Forum

## Quick Reference Schedule

**8:00 am -8:45 am Registration – UC Lobby**

**8:30 am -8:45 am Judges and Moderators Meeting – UC 223**

**8:45 am -9:05 am Welcome and Orientation – UC Theater**

### **9:15 am -10:30 am MORNING SESSION I**

<b>Session</b>	<b>Title</b>	<b>Location</b>
A	Graduate Student Oral Presentations 1	UC Webster Room
B	Graduate Student Oral Presentations 2	UC Red River Room
C	Undergraduate Oral Presentations 1	UC Theater
D	Graduate Oral Presentations 3	UC De Soto Room
E	Graduate Poster Presentations 1	UC Ballroom
F	Undergraduate Poster Presentations 1	UC Ballroom

**10:30 am -11:00 pm Coffee Break – Ballroom**

### **11:00 am -12:30 pm MORNING SESSION II**

<b>Session</b>	<b>Title</b>	<b>Location</b>
G	Graduate Oral Presentations 4	UC Webster Room
H	Graduate Oral Presentations 5	UC Red River Room
I	Graduate Oral Presentations 6	UC Theater
J	Undergraduate Oral Presentations 2	UC De Soto Room
K	Graduate Poster Presentations 2	UC Upstairs Lobby
L	Undergraduate Poster Presentations 2	UC Ballroom

**12:30 pm - 1.30 pm Lunch –UC Ballroom (complementary for registered attendees)**

### **1:30 pm -3:15 pm AFTERNOON SESSION**

<b>Session</b>	<b>Title</b>	<b>Location</b>
M	Graduate Oral Presentations 7	UC Theater
N	Undergraduate Oral Presentations 3	UC Red River Room
O	Graduate Poster Presentations 3	UC Caddo Bossier Room
P	Graduate Poster Presentations 4	UC Upstairs Lobby
Q	Undergraduate Poster Presentations 3	UC Ballroom

**3:15pm - 3:40 pm: Networking Break & Open Poster Session – UC Ballroom**

**3:40pm -4:00 pm Awards Ceremony – UC Theater**