

Presented by the LSU Office of Undergraduate Research | April 17, 2026 | 13th Annual Undergraduate Research and Creativity Conference

LSU

discover
day
2026

research * explore * create



DISCOVER DAY 2026 TABLE OF CONTENTS

3	Schedule of Events
4	Ballroom Map
5-10	Session A: Posters & Visual Displays
11-16	Session B: Posters & Visual Displays
17-21	Session C: Posters & Visual Displays
22	Art & Performances
23-27	Oral Presentations
27	Panel
28	Keynote Speaker
29	Research Ambassadors
29-30	Special Thanks
31	Distinguished Undergraduate Researcher Program

WELCOME TO LSU DISCOVER DAY 2026!

LSU Discover Day is a university-wide undergraduate and creativity conference that provides a platform for students from all disciplines to share their research and creative projects. Student presentations include readings, posters, visual displays, art exhibitions, and oral presentations.

This event allows the LSU community a chance to publicize and reflect on undergraduate student success in discovery, creativity, and research.

SCHEDULE OF EVENTS

All locations in the LSU Student Union

<u>Time</u>	<u>Event</u>	<u>Location</u>
7:30 AM - 3:00 PM	Check-In Desk Open	2nd Floor East Lobby [next to Cotillion Ballroom]
8:00 AM - 8:30 AM	Breakfast and Welcome Remarks	Cotillion Ballroom, Room 250
9:00 AM - 2:45 PM	Oral Presentations <i>Topics: all topics</i>	Capital Chamber, Room 329 Castilian, Room 304 International, Room 303 Red River, Room 323 Vieux Carré, Room 325
8:30 AM - 10:00 AM	Session A: Posters & Visual Displays <i>Topics: Science, Pennington Biomedical Research Center, Veterinary Medicine</i>	Cotillion Ballroom, Room 250
9:00 AM - 9:45 AM	Performances	Red River, Room 323
11:00 AM - 12:30 PM	Session B: Posters & Visual Displays <i>Topics: Agriculture, Engineering, Human Sciences & Education, Business, Music & Dramatic Arts, Mass Communication</i>	Cotillion Ballroom, Room 250
11:30 AM - 1:30 PM	Presenter Lunch Break	Atchafalaya, Room 339
1:20 PM - 1:30 PM	Remarks by Interim Provost Troy Blanchard	Cotillion Ballroom, Room 250
1:30 PM - 3:00 PM	Session C: Posters & Visual Displays <i>Topics: Coast & Environment, Humanities & Social Sciences, Art</i>	Cotillion Ballroom, Room 250
1:30 PM - 3:00 PM	Art Show	Cotillion Ballroom, Room 250
3:30 PM - 4:30 PM	Panel - Pursuing Careers in Research	Capital Chamber, Room 329
5:00 PM - 5:15 PM	Remarks by Vice President of Research & Economic Development, Dr. Robert Twilley	Cotillion Ballroom, Room 250
5:15 PM - 6:30 PM	Keynote Speech & Awards Ceremony <i>Keynote Speaker: Dr. Crystal Johnson</i>	Atchafalaya, Room 339

All presenters are Louisiana State University students unless otherwise noted.

KEY

B | Baton Rouge Community College
BM | Baton Rouge Magnet High School
C | Centenary College of Louisiana
D | Delgado Community College
LU | Lamar University
L | Loyola University New Orleans

M | McKinley High School
MN | McNeese State University
NE | Northeastern University
NW | Northwestern State University
SM | Scotlandville Magnet High School
SE | Southeastern Louisiana University

SU | Southern University A&M
UA | University of Alabama
UE | University of Evansville
UL | University of Louisiana at Lafayette
UM | University of Mississippi
UN | University of New Orleans

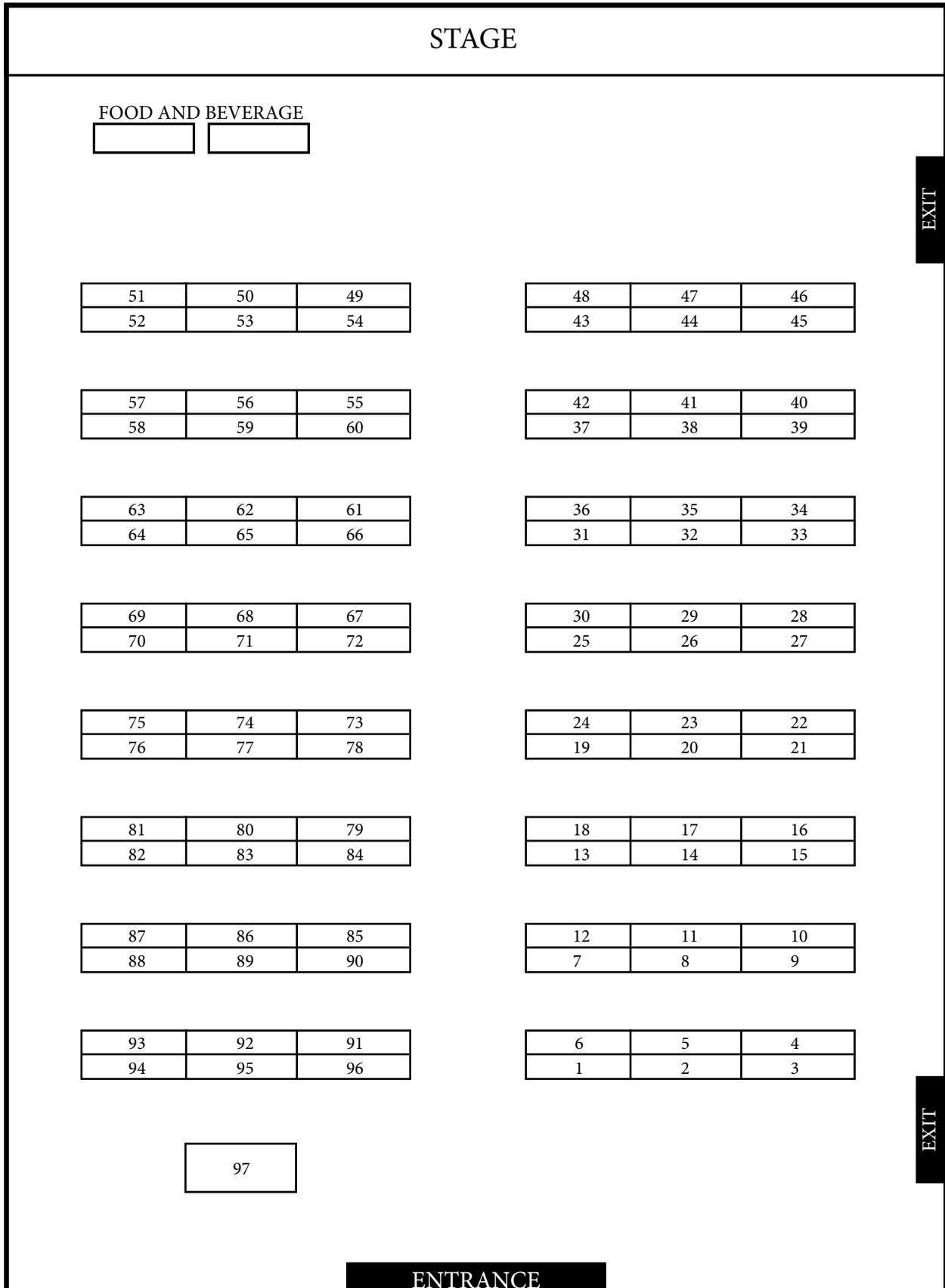
GUEST WI-FI

Network: LSU Guest Wireless

Username: DD26

Password: 938996

ROYAL COTILLION BALLROOM MAP



SESSION A: 8:30 - 10:00 AM

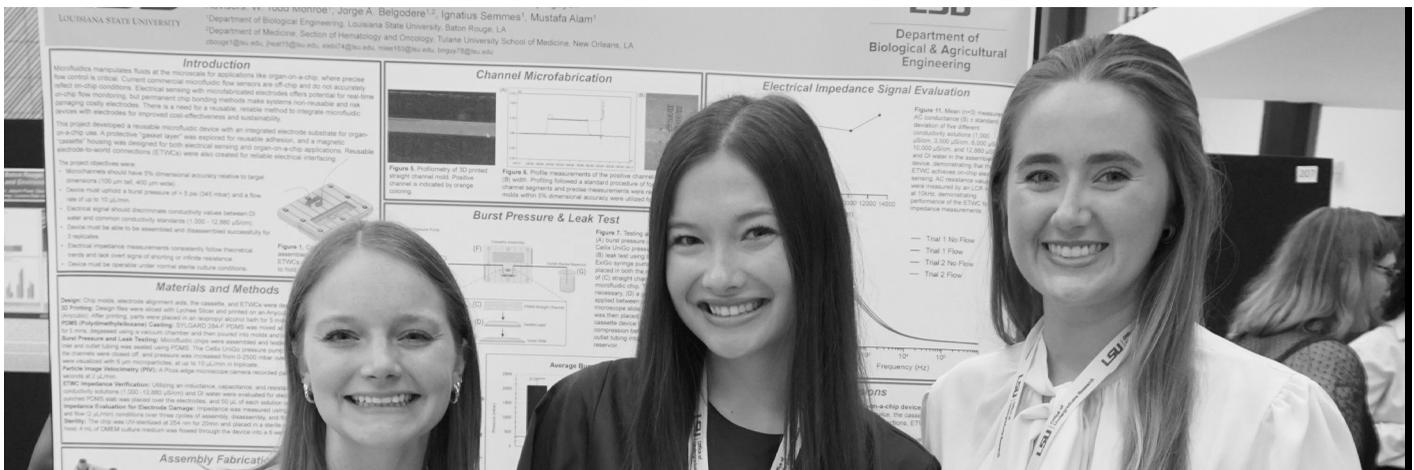
Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

ENGINEERING

#	Student	Title	Mentor
3	Nhu-Thao Cao, Cooper King, Benjamin Dugas, Justice Smith, Grant Crawford & Sean Bailey	Glucose Analog Sweat Analysis Wearable Sensor	Nicholas Totaro
2	Abigail Savoy, Briana Zamora, Maleah Rucker, Bryce Wands, Velshunti Thompson & Dylan Venditti	M-FLEX65: Myoelectric Flexion Orthosis	Nicholas Totaro

PENNINGTON BIOMEDICAL RESEARCH CENTER

#	Student	Title	Mentor
92	Alexis Bourgeois	Pregnancy Health Management Apps: A Cross-Sectional Market Research Study on Preferences among Women in the Southern U.S.	Amanda Staiano
94	Miriam Bustami, Tyler Louviere & Ayush Patel	Limitations of Body Mass Index for Health Assessment in Elite Collegiate Female Gymnasts	Steven Heymsfield
95	Joshua Craig B	A New Machine Learning Workflow to Quantify Complex Biological Structures	Heike Muenzberg-Gruening
89	Layla DePrimo	Investigating the Role of Leptin in Regulating the Counterregulatory Response to Hypoglycemia	David McDougal
88	Sophie Jeansonne	Structural Alterations in the Oncostatin M Receptor Disrupt Oncostatin M Signaling in Preadipocytes	Carrie Elks
93	Christian Louis	Understanding Mother Needs and Preferences for a Family Health Management App: Findings from a Market Research Report	Amanda Staiano



SESSION A: 8:30 - 10:00 AM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

SCIENCE

#	Student	Title	Mentor
7	MiKia Alexander	The Biomagnification of Total Mercury [and its Methylated Form] during the Various Life Stages of Dragonflies [<i>Anisoptera</i>] from Montegut, LA	Sydney Moyo
26	Benjamin Almond	Characterizing the Role of the SP1/KLF Transcription Factor Hucklebein in the <i>Drosophila melanogaster</i> Ventral Nerve Cord	SeYeon Chung
64	Lexie Arceneaux & Shelby Milton NW	Quantifying Ethanol in Weathered Gasoline Using Handheld Raman Spectroscopy	Chad Thibodeaux
14	Lillie Ballanco	Purification and Structural Modeling of Rice Lipoxigenase-1	Nathaniel Gilbert
52	Natali Barnes & Junior Colonna	Silt Happens: Laminated Stories of East Bay	Emily Wei
5	Leah Bartholomew	Comparative Analysis of Immune Cell Responses during Appendage Regeneration across Vertebrates Using Single-cell Transcriptomics	Igor Schneider
42	Marlyn Bolden	Method Development of Phytosterol Identification in <i>Helianthus annuus</i> [Sunflower]	Jordan Dowell
41	Isabelle Boykin	Hidden Treasures: Identifying Plant-Derived Compounds with Antimicrobial Characteristics in Magnolia	Jordan Dowell
91	Anne Brasseaux	Sexual Dimorphism in Oxytocin Receptor [OXTR]-Expressing Pro-opiomelanocortin [POMC] Neurons in the Arcuate Nucleus [ARC]	Ryoichi Teruyama
22	Claire Burton & Maddie Ascani	Mitochondrial DNA Gene Tree Discordance is Driven by Molecular Evolution Rather than Recombination	Jeremy Brown
16	Jennifer Cagnolatti	Optimization of the Reaction Conditions for Fucoxanthinol Production Using Michaelis-Menten Kinetics	Naohiro Kato
28	Azema Caulfield, Nabika Mora & Isiah Fisher D	The Oral Microbes: The MAPK and MLCK Cell Signaling in Vascular Inflammation	Habib Ansaria
54	Anthony Chiasson	Influence of Diagenesis on Oxygen Isotope Composition of Permian Vertebrate Teeth	Achim Herrmann
20	Sydney Clay	Algal Presence & Diversity in Ningaloo Reef	Naohiro Kato
65	Isabella DiMaggio NW	Microwave-Assisted Synthesis and Characterization of Copper Nanoparticles: Towards the Development of Novel Photocatalysts for the Degradation of PFAS	Yohaselly Santiago-Rodriguez
59	Sam Dinshaw	The Influence of Zero-point Sampling on Attosecond Transient Absorption Spectra	Kenneth Lopata
19	Molly Dreznick & Briana Barnum	Investigating Molecular Responses to EPFR-Induced Oxidative Stress in <i>Caenorhabditis elegans</i>	Fan Zhang
38	Lauren Eckert	Effects of Pathogen Exposure on Emigration Behavior, Infection, and Reproduction in Congeneric Tribolium Beetles	Jim Cronin
15	Samantha Ferrer	Determining the Effects of SVIP Overexpression on Health and Lifespan of Germline Ablation <i>C. elegans</i> Mutants.	Alyssa Johnson
11	Luis Flores	Mild Inhibition of VCP to Treat MSP-1 and Related Proteinopathies	Alyssa Johnson
24	Olivia Forsman	<i>De Novo</i> Biosynthesis of Peroxisomes in <i>Caenorhabditis elegans</i> and Its Implication in Cellular Regeneration	Adam Bohnert

SESSION A: 8:30 - 10:00 AM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

SCIENCE

#	Student	Title	Mentor
51	Jake Gilson	Training a Graph Neural Network to Identify Kaon Production Events in Pion Interactions for ProtoDUNE	Martin Tzanov
52	Virginia Good	Electrochemical Behavior of a Cobalt Cyclam Catalyst Under Confinement	Noémie Elgrishi
37	Ava Gruner	Unearthing the Genetic Basis of Specialized Metabolites in the Fungal Plant-Pathogen, <i>Botrytis cinerea</i>	Jordan Dowell
6	Elizabeth Heneghan	Is Sunscreen Polluting our Ocean? Exploring the Toxic Effects of Benzophenone-1 (BP1) from Commercial Cosmetics on Marine Crustaceans [<i>Tigriopus californicus</i>]	Morgan Kelly
39	Andrew Homan	NR3C2 Expression in the Optic Tectum and Neophobia in House Sparrows	Christine Lattin
46	Maia Jackson	The Genetic Underpinnings of Nuchal Hump Variation in Highland x Sheepshead Swordtail Hybrids	Daniel Powell
53	Samuel Juneau	Mineralogic and Geochemical Characterization of the Crazy Sphinx Skarn Deposit, Boulder Batholith, Helena, Montana	Matthew Loocke
48	Lissa Kanton	Microclimate and Vegetation Structure as Determinants of Night Roosting Site Selection in Overwintering White-Throated Sparrows	Flavia Montaño-Centellas
13	Ramie Kasabali	Evaluating AI Driven Co-Folding of Allosteric Binding in 5-Lipoxygenase	Nathaniel Gilbert
84	Matthew Kelso	Impacts of Hydrogenotrophic Bacteria on Underground Hydrogen Storage	Crystal Johnson
68	Reese Kennedy NW	The Effect of Sulfuric Acid Exposure on the Thermal Properties of Microplastics	Chad Thibodeaux
63	Hidaya Khan & Elissia Griffin L	Tunable Organometallic Complexes for Catalysis and Advanced Material Applications	Shane McGlynn
50	Sandra Killeen	Patterns in the Noise: Investigating Transient Noise in the LIGO Collaboration Detectors	Gabriela González
44	Belinda Kincade	Genome-Wide Association Study of Nutrient-Use and Pathogenicity in Grey Mold [<i>Botrytis cinerea</i>]	Jordan Dowell
67	Zoe Kirejczyk	Characterizing pH Modulation across Genetically Distinct <i>Botrytis cinerea</i> Isolates	Melanie Madrigal
18	Chloe LeBlanc	Triggering Stringent Response in <i>Microcystis aeruginosa</i> by Nutrient Limitation with Implications for Oyster Filter Feeding	Beth Stauffer
73	Bowen Liu	Effects of HCN Channel Blockade on Astrocyte Phenotype in the Entorhinal Cortex	Juhee Haam
25	Blair Middleton	Evaluating Terpene Mixtures as Alternative Control Strategies for <i>Botrytis cinerea</i>	Melanie Madrigal
27	Caitlin Morris, Angelina Hoang, Hailee Blount & Tawba Khalek D	Dental Microbes and Cardiovascular Diseases: The Roles of Inflammatory Markers and Associated Signaling Pathway	Habib Ansari
31	Angelle Nash	The Behavioral Consequences of Female Mimicry: The Role of the False Gravid Spot in Male <i>Xiphophorus birchmanni</i>	Daniel Powell
36	An Nguyen	Retrotransposon <i>R2</i> Expression during Nucleolar Stress in the Fruit Fly, <i>Drosophila melanogaster</i>	Patrick DiMario

SESSION A: 8:30 - 10:00 AM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

SCIENCE

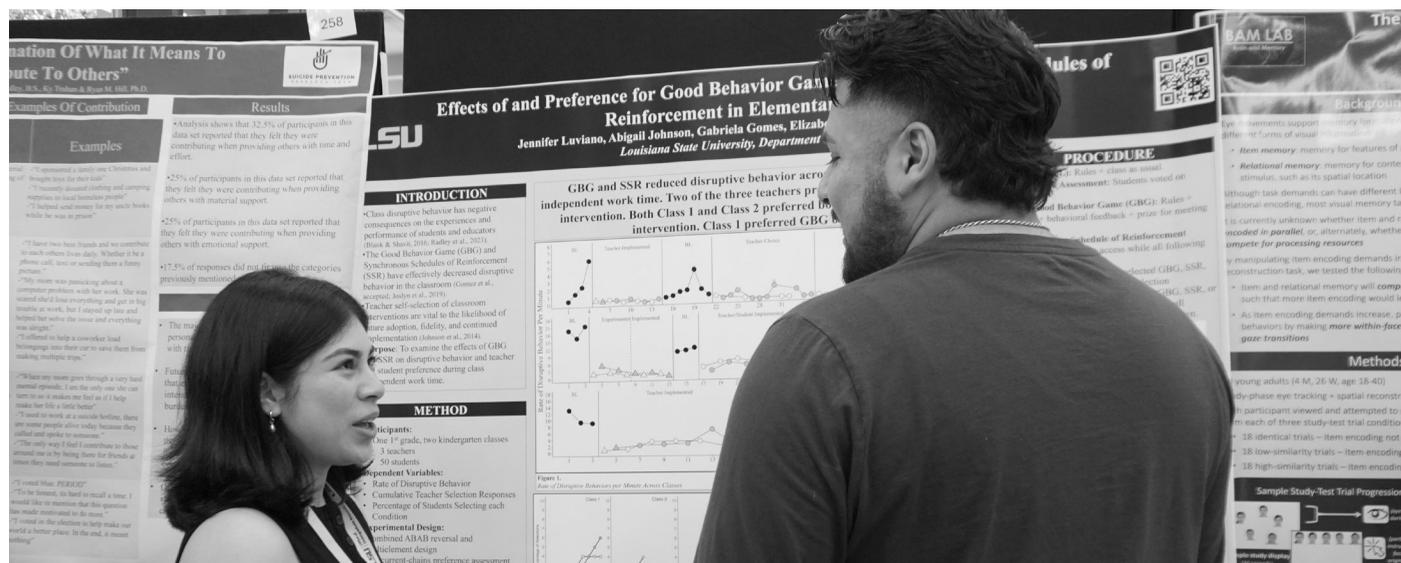
#	Student	Title	Mentor
21	Anh-Tu Nguyen	Investigation of the Localization of Fucoxanthin and Fucoxanthinol in BEAS-2B Cells	Naohiro Kato
12	David Nguyen	Uncovering the Role of the Argonaute <i>rde-1</i> in the Regulation of Lifespan and Autophagy in <i>C. elegans</i>	Alyssa Johnson
49	David Nguyen	Effects of Yttrium and Niobium Doping on the Structural and Superconducting Properties of Zr ₂ Co Alloys	David Young
4	Kaitlyn Nguyen	Mapping the Retinal Axonal Projections in the Brain of the Four-Eyed Fish [<i>Anableps anableps</i>]	Patricia Schneider
29	Jordan Phillips	The Relationship between Student Self-Efficacy and Resource Use Behaviors in Introductory Biology	Maryrose Weatherton
47	Emma Powers	Ecogeographic Variation in Plumage and Morphometrics of Common Raven [<i>Corvus corax</i>]	Nicholas Mason
78	Maria Lucia Ramirez NE	Sex-Based Differences in Sleep Quality and Recovery: Women during Menstruation vs. Men	Winston Kennedy
33	Eman Rana, Kayden Dees & Fatou Sawo D	Dental Diseases: Roles of Toll Like Receptors (TLRs) and Cellular Signaling Pathways	Habib Ansari
1	Amna Rathor	Use of DNA Methylation Markers to Predict Cervical Dysplasia Outcomes	Jennifer Cameron
32	Aadi Raval	Unique and Overlapping Functions of DedA Family Membrane Proteins of <i>Acinetobacter baumannii</i>	William Doerrler
40	Eleanor Rice	It Takes Guts: Effects of Antibiotics on Gut Integrity in Wild-Caught House Sparrows [<i>Passer domesticus</i>]	Christine Lattin
30	Natalie Roberts	Directed Growth Responses of <i>Boytis cinerea</i> to Plant-Derived Terpenes	Melanie Madrigal
23	Clayton Robinson	Reevaluation of RubA in Synechococcus PCC 7002 Confirms its Essential Role in Photosystem II	David Vinyard
90	Noelle Rountree	Mapping Vasopressin Expressing Cells in Mouse Retina	Ryoichi Teruyama
45	Trayvond Russ	Structural Blue Coloration and Collagen-Related Gene Expression and Population-Level Divergence in <i>Gymnophithys</i> Antbirds	Gregory Thom
8	Nia Sampson	Impact of Fire on Soil Microbe-Mediated Plant Growth in Longleaf Pine Savanna Ecosystems	Anita Simha
34	Destin Sather, Dylana Smith, Aryel Moore, Sean Couvillon & Luke Adams D	The Role of MAP Kinase Signaling in Inflammation and Vascular Dysfunction	Habib Ansari
79	Josephine Saunders	Defining the Enthalpy of Reaction for Acetylcholinesterase through Microcalorimetry	Vincent LiCata

SESSION A: 8:30 - 10:00 AM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

SCIENCE

#	Student	Title	Mentor
85	Maureen Shelby	Explore the Binding of a [2Fe-2S] Cluster in <i>Mycobacterium tuberculosis</i> Ferric Uptake Regulator Protein (FurA) for Iron Homeostasis Regulation	Huangen Ding
96	Deborah Shobamowo	Facing the Heat: Population Specific Differences in Response to Heat Shock in Five Populations of Copepod <i>Tigriopus californicus</i>	Morgan Kelly
72	Patrick Jude Tabilin	Effects of Hyperpolarization-Activated Cyclic Nucleotide-Gated Channel Blockade on Pro-Inflammatory Cytokine Expression in the Entorhinal Cortex	Juhee Haam
17	Ellen Thiery	Analysis of Alcohol Oxidation Activity of Alcohol Dehydrogenase in Yeast at Varying pH Values	Johnna Roose
43	Antonio Tirota	Do Freshwater Mussel Beds Influence the Nutritional Quality of Aquatic Subsidies?	Sydney Moyo
55	Peyton Todd	Examining the Effects of Environmental and Geoscience Learning Experiences on Undergraduate Students	Zakiya Wilson-Kennedy
9	Gabriella Tracey	Spatial RNA-Seq Reveals Active Renewal of the Air-Exposed Cornea in the Four-Eyed Fish - <i>Anableps anableps</i>	Patricia Schneider
35	Matthew Umstetter	Defining mRNA Post-Transcriptional Modifications with an Antibody-Based Deep Sequencing Method	Anastasios Vourekas
56	Victoria Valtr	Synthesis and Characterization of Low Coordinate Cobalt(II) Polypyridyl Oligomers	Clifton Wagner
69	Abigail Watson	Propargyl Claisen Rearrangements in Cylic Enones	Rendy Kartika
58	Kennedy Webb	G9a: Structure, Function, and Therapeutic Targeting in Addiction	Fatima Rivas
57	J'Meeyah White	Understanding Deeper Learning Competencies in General Chemistry Through Qualitative Analysis	Zakiya Wilson-Kennedy
10	Aldrich Wilberg	Class III PI3K Complex I: A Potential Target for Modulating Autophagy in <i>C. elegans</i>	Alyssa Johnson
61	Jada Yeboah	Synthesis of aza-BODIPY Fluorophores for Conjugation with EGFR-Targeting Molecules	Graça Vicente
60	Iker Zuniga	The Impact of Confidence: A Study on Self Confidence in Learning Chemistry and Study Habits	Zakiya Wilson-Kennedy

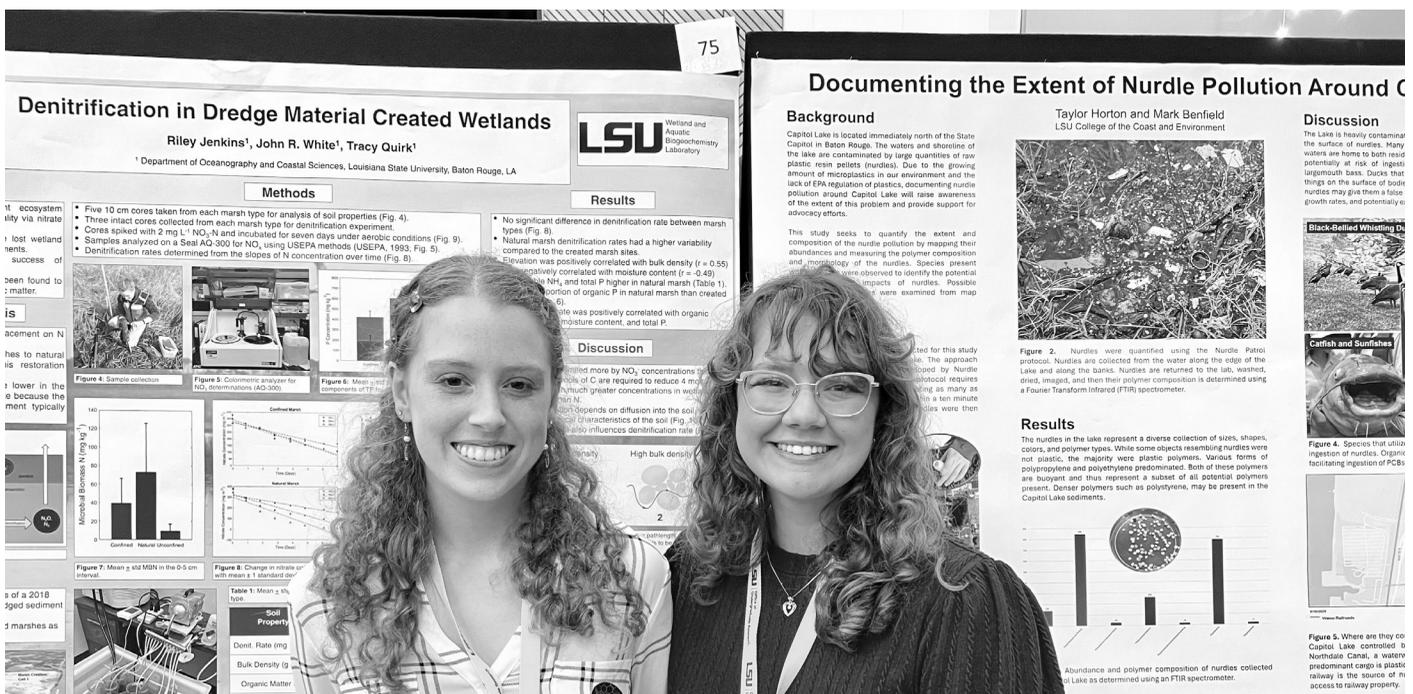


SESSION A: 8:30 - 10:00 AM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

VETERINARY MEDICINE

#	Student	Title	Mentor
71	Madelyn Baumbouree	Reversing Aging Using Fecal Microbiota Transplantation in a Canine Model: A Case Study	Agostino Buono
76	Brianna Durica & Morgan Welsh	Early Life Stress Increases Ethanol Intake and Depression-Like Behavior in a Mouse Model	Ethan Anderson
81	Maya Faircloth & Andrew Guidry	Traumatic Brain Injury Increases Alcohol Consumption in a Mouse Model	Ethan Anderson
75	Bailey Florent & Carliyah Tickle	Epigenetic Regulation of Depression-Like Behavior in Mice Following Alcohol Use	Ethan Anderson
87	Allison Langhete & Lila Thompson	Drug-Seeking Behaviors Increase when Accumbal Phospholipase C Gamma 1 is Decreased in a Rat Model	Ethan Anderson
70	Olivia Munsey	Exploring the Regulatory Role of LIN-23 on SKN-1 Activity during Infection of <i>Caenorhabditis elegans</i>	Danielle Garsin
74	Hudson Rieman	NLRP3 Inflammasome Regulates Neutrophil Heterogeneity and Effector Functions in Sepsis	Samithamby Jeyaseelan
77	Vivian Truong & Danielle Thai	A Ketogenic Diet Reduces Anxiety-Like Behavior in Rats	Ethan Anderson
86	Emma Tsai	Transcriptomic Signatures Underlying Pb-Mediated Stress-Related Behavioral Phenotypes in Larval Zebrafish (<i>Danio rerio</i>)	Ahmed Abdelmoneim
83	Abby Turner & Andrew Bywater	Increased Voluntary Alcohol Drinking after a Novel Dependence Model in Mice	Ethan Anderson
80	Hang Vu	Impact of IL-10 Deficiency on Lung Function with Allergen Exposure Following In utero Exposures to JUUL Menthol in Mice	Alexandra Noël
82	April Wang	Isolation and Characterization of Extracellular Vesicles from Human Induced Pluripotent Stem Cells (hiPSCs)	Shaomian Yao



SESSION B: 11:00 AM - 12:30 PM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

AGRICULTURE

#	Student	Title	Mentor
27	Fahmina "Mina" Ali	The Effects of Dietary Lipids on Gut Microbiome and Neuroinflammation	Ezgi Özcan
12	Jalayne Allison	Investigating Nutrient Dynamics in Urban Watersheds Using Fluorescent Dissolved Organic Matter (fDOM) Characterization	Michael Hayes
25	Sneha Atluri	Can Vertical Plane Presentation of a Visual Illusion Alter Movement Planning or Displacement of Horizontal Manual Length Estimations?	Jan Hondzinski
32	Tazia Banks UN	Do Bay Anchovies (<i>Anchoa mitchilli</i>) and Striped Anchovies (<i>Anchoa hepsetus</i>) Spawn in Lake Pontchartrain?	Martin O'Connell
23	Madison Barfield	Analyzing the Relationship between Emerging Adults Experiencing Academic Stress and Gastrointestinal Symptoms	Erin McKinley
19	June Chaffin	Comparisons of Intact and Detached Leaf Assays for Evaluation of Disease Susceptibility	Jordan Dowell
10	Delia Fourie	Identifying Parental Species of a Hybrid Conebill Specimen from Peru	Nicholas Mason
34	Kirsten Harrison SU	An Empirical Investigation of Students' Adoption and Use of Generative Artificial Intelligence (GenAI) in Higher Education	Jung-Im Seo
16	Isabel Hau	Evaluation of Liberty® Herbicide for Zygoty Verification in Transgenic Maize (<i>Zea mays</i>) Expressing the Bar Gene from <i>Streptomyces hygroscopicus</i>	Zhi-Yuan Chen
13	Keana Howard	Evaluating the Release of Caffeine and Dissolved Organic Matter to the Environment from Composted Coffee Grounds	Michael Hayes
20	Thomas Knight	Effect of Drought Stress on Soybean Plant Development, Field Soil Chemistry, and Microbiome Structures Under Greenhouse Conditions	Jong Hyun Ham
35	Cadence LeBlanc	Something Old and Something New: Opposing Opinions on Colorful Wedding Dresses	Casey Stannard
8	Monica Levron	Testing Ortmann's Law of Stream Position with Natural History Specimens from the Pearl River	Garrett Hopper
15	Michael Micinski C	Comparative Analysis of Soybean Growing Practices on Soil Health and Crop Yield Under Agricultural Management	Changyoon Jeong
6	Mallory Miller	Deriving Mercury Exposure Risk from the Feeding Ecology of Coastal Sharks in Coastal Louisiana	Jeffrey Plumlee
18	Mia Miranda	Machine Learning Approaches for Species-Level Weed Identification in Rice Production	Ivan Grijalva
29	Jonathan Nguyen	The Role of Probiotics in Inhibiting Foodborne Pathogens: A Study on Antimicrobial Activity on Food Contact Surfaces	Achyut Adhikari
11	Ruth Nolen	Chemical Characterization of Crawfish Boil Water for Environmentally Friendly Treatment and Disposal	Michael Hayes
24	Riley Palmer	Removal of Genomic DNA during Extraction of RNA	Michael Keenan
5	Katherine Patron	Validating Novel Survey Methods for Estimating Population Size and Demographics of Reef-Building Bivalves in Louisiana Estuaries	Jeffrey Plumlee
22	Madelyn Phillips	Food Noise, Emotional Eating and Food Security among LSU Undergraduates	Erin McKinley
9	Francesca Ruiz	Valve Movements and Mortality Rates of the Freshwater Mussel, <i>Pustulosa pustulosa</i> , Exposed to Increased Salinity and Temperature	Garrett Hopper
31	LeighAnn Slowick	Investigation of Circadian Rhythm in the Formosan Subterranean Termite, <i>Coptotermes formosanus</i>	Qian Sun

SESSION B: 11:00 AM - 12:30 PM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

AGRICULTURE

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
21	Ella Stanley & Ana Omes	Distance Matters: Determining the Maximum Sensing Distance for Optimal Growth of <i>Agroathelia rolfsii</i>	Chien-Yu Huang
17	Madeline Steinkamp L	Occurrence and Activity Patterns of the Tricolored Bat within Two Sites of Southeastern Louisiana	Craig Hood
36	Anna Stookey	Leveraging Digital Product Passport Technology to Strengthen Transparency and Consumer Trust in Luxury Fashion Resale	Chunmin Lang
26	Harrison Stout	Characterizing the Relationship between Dietary Fats and a Gut Microbe <i>Lactobacillus plantarum</i>	Ezgi Özcan
28	Carissa Wagner	Evaluation of Kombucha Fermentation Dynamics and its Antimicrobial Activity in Green and Chamomile Tea Systems	Achyut Adhikari
33	Monyale West, Shelly Jones & Camille Baines SU	The Effects of Fennel Supplementation During Estrus Synchronization and Estrus Detection for Gilts and Sows	Jodi Morton
14	Madison Woodson	Effects of Urbanization on the Availability of Soil Organic Matter	Michael Hayes
7	Madison Wray	The LENS Project: Transparent Data for Calculating the Biomass of Louisiana Nekton	Jeffrey Plumlee

ART

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
4	Sebastian Crandall	Love Letter to Live Oaks: Digital Twin Exhibition of Live Oak Trees at Louisiana State University	Brendan Harmon

BUSINESS

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
2	Alexis Ray	Cancel Culture: The Intersection of Product Elasticity and Consumer Activism	Kris Lindsey Hall

ENGINEERING

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
90	Urwah Abbas	Influence of Sex and Injury Status on Vertical Jump Biomechanical Performance in Basketball Athletes	Nicholas Totaro
69	Hannah Akala	TigerChem: An Interactive Computational Platform for Molecular Property Research	Jose Romagnoli
89	Noora Al Horr	Automated Analysis and Visualization of Acute:Chronic Workload Ratios Using Excel-Based Computational Tools	Nicholas Totaro
81	Isabel Bacas, Madeline Smith, Averie Hebert, Mila Puhek & Alyssa Hennessey	Portable Multi-Sensor Incubator for Parallel ClotChip Analysis	Debnath Maji
68	Leo Brown	Intrinsically Microporous Polymers for Anion Exchange Membranes	Nicolas Latiolais

SESSION B: 11:00 AM - 12:30 PM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

ENGINEERING

#	Student	Title	Mentor
80	Nhu-Thao Cao	Enhancing Solubility of Recombinant Proteins using Chaperone-Assisted Cell-Free Protein Synthesis System	Yongchan Kwon
70	Vinisha Chaudhary, Precious Adeniyi, Dubem Akukwe, Trent Hulshoff, Chase Ripkowski MN & Ethan Wang AH	Development of LaACES Balloon Payload for Air Quality Study	Bei Xie
87	Calley Chauvin, Cameron Mincin, Zander Hue, Michael Lacourrege & Sydney MacDonald	Harnessing Rainwater to Enhance Aquatic Health in Research Laboratories	Qi Cai
74	Octavio Combellas-Jaimes	Mechanical Alloying of Cu-Ni-Ta-Li Alloys for Improved Mechanical Properties	Christopher Marvel
61	Tyler Cormier	Comparative Assessment of Large Language Models with Different Parameters across Structural Analysis Problems	Furkan Lülecı
60	Michael Curry	Coordination and Optimal Path Planning for Autonomous Vehicle Teams in Complex Settings	Xiangyu Meng
91	Brookelyn Darr, Laura Taro, Shimra Ramgarib, Isabel Attenhofer & Emily Vanderbrook	Mechanical Crown Removal Device (MCRD)	Nicholas Totaro
66	Dillon Ditt	Aerobic Treatment Units: An Overlooked Source of Anthropogenic Water Contamination	Aaron Bivins
75	Prashant Gupta, Jivan Mainali & Riwaz Uprety MN	3D Object Scanner	Seyed Baradaran Aghili



SESSION B: 11:00 AM - 12:30 PM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

ENGINEERING

85#	Student	Title	Mentor
95	Anna Hardgrove	3D Bioprinting a fGelMA Scaffold to Model Triple-Negative Breast Cancer	Todd Monroe
58	Ethan Harrell, Joshua France, Precious Adeniyi, Israel Alabi & Garrison Guillory MN	Design and Implementation of an Autonomous Solar Tracking System	Cunzhi Zhao
76	Marie Howe, Lillian Bodi, Grace Ladner, Aseel Ahmed & Helen Watson	Raman Spectrometer Pen for Cancer Margin Detection	Manas Gartia
63	Mohamed Kheshouei	Measurement-Guided Additive Manufacturing for Quantum Technology Components Using Imaging and 3D Metrology	Mahathir Mohammad Bappy
84	Cooper King	Development of a Mechatronic Rotational Stereoscopic Image Acquisition System	Kevin Hoffseth
64	Younghyun Ko	From Idle Wells to Energy Storage: Power-to-Heat-to-Power (P2H2P) Conversion using Repurposed Oil Infrastructure	Jader Barbosa
67	Zachary Legier	Soft, Tactile Robotic Gripper for Marine Sampling and Monitoring	Robert Herbert
73	Benjamin Logan	Using a Robotic Arm Mounted Camera and 3D-Printer Telemetry Data to Monitor, Predict and Correct Errors in the Printing Process	Mahathir Mohammad Bappy
94	Gerard Lorio, James Balart, Brennan Comeaux, Dylan Roussele & Luke Lissard	IM-CHIP: A Modular Impedance-Monitored Microphysiological Platform for Triple-Negative Breast Cancer Drug Screening	Todd Monroe
65	Nicolas Manica	Game Changer: Optimizing Surfactant Formulations Across Concentration and Salinity Gradients for Wettability Alteration in the Permian Basin	David Schechter
82	Milain Marcel, Raedan Stephens, Brian Baudoin, Gavin Murray, Katherine Mull & Anna Claire Ricks-Boyd	3D Printed Tactile Map of LSVI Playground Using Photogrammetry	Marybeth Lima
59	Gabriel Nedelea	Nonreciprocal Thermal Emitters with Large Contrast Between Absorptivity and Emissivity over a Wide Angular Range	Georgios Veronis
93	Mayar Nickols, Evan McConnell, Enson Li, Hanna DeVillier, Giancarlo Lara & Andrew Beard	Multi-Directional Mechanical Testing of Soft Biological Tissues	Bruno Rego
71	Gabriel Pacheco-Ethridge	Fusing Face, Voice, and Language for Real-World Dementia Symptom and Affect Modeling	Hunter Gilbert
72	Abigail Peck	Process Optimization of Atmospheric Plasma-Sprayed Titanium Nitride (TiN) Coatings	Christopher Marvel

SESSION B: 11:00 AM - 12:30 PM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

ENGINEERING

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
85	Joennis Reyes, Jayleen Chavez, Hudil Touassa, Chloe Cazayoux & Kaden Harrison	Cardiology on a Chip	Benjamin Dubansky
78	Bershell Reynaud, Minelis Brito, Mya Alford, Chiemeka Osiagwu & Amaya Simpson	ResiClean: An Autonomous All-in-One Post-Processing System for Resin 3D Printing	Yongchan Kwon
86	Kristen Richard	Dye-Enhanced Visualization of Damage-Induced Bovine Cortical Bone	Kevin Hoffseth
96	Dylan Rousselle	Design and Fabrication of 3D Printed Fully Enclosed Microfluidic Devices Implementing a "Stop-Tape-Go" Method for Organ-on-a-Chip Applications	Todd Monroe
88	Abigail Savoy	Will It Tear? Creating a Collegiate Athlete Cutting Mechanics Grading Process	Nicholas Totaro
92	Thinula Tennakoon	AI-Driven Method Design for Rapid Biomechanical Asymmetry Analysis in Human Performance Data	Nicholas Totaro
79	Jonathon Vo	Multi-Objective Bayesian Optimization for Engineering the Extracellular Matrix Composite	Philip Jung
62	Kevin Yanez Orellana	Effect of using Nanocellulose on the Mechanical Performance of Biochar Mortars	Hassan Noorvand

HUMAN SCIENCES & EDUCATION

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
48	Andrea Aragon- Lopez	Evidence-Based Practices for Addressing ACEs: A Systematic Review to Support Trauma-Informed Youth Programming	Alma C. Stewart Allen
53	Leah Charles	Predictive Modeling of Sense of Agency through Auditory-Evoked Event Related Potentials.	Chris Hill
43	Amelia Clark	Perception Deception: Did Stress Change Among Women in a 6-week Dance Intervention?	Ryan Hulteen
46	Sarah Durocher, Katherine King, Mya Wicker & Zachary Robinson	Connecting Coursework to Practice: A Narrative Study of How HRD Students Make Meaning of their Internship Experiences	Bethany Hager
52	Kaylie Grimm	Anxiety Disorders Alter Task Feedback Processing during Visuomotor Learning	Chris Hill
42	Laura Haag	Associations Between Motor Competence and Fitness in Young Adults	Ryan Hulteen
49	Irene Kaiser & Graham Mizell	Femoral Popliteal Bypass using Prosthetic Graft in a Human Anatomical Donor	Melissa Thompson
47	Julianne Lee	Get to Know Your LSU Future Scholars: Examining the Internal Characteristics that Define Scholar Identity	Scott Wilks

SESSION B: 11:00 AM - 12:30 PM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

HUMAN SCIENCES & EDUCATION

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
56	Iresa Lincoln	Motor Planning and Execution during Feeding in Autistic Children	Nicholas Fears
41	Mariana Mantilla	Obesity Blunts Paravascular-Interfibrillar Mitochondria Membrane Potential Differences at Rest	Hailey Parry
45	Jalen Montgomery	Evaluating the Geaux Transfer Program: A Pre-Post Comparison of Transfer Stigma, Sense of Belonging, and Academic Adjustment at LSU	Yu Chen
51	Marianna Munguia & Garrett Reinmann	Long-Segment Cervical Arthrodesis: A Cadaveric Case Report	Gbenga DadeMatthews
55	Brady Napolitano & Alyson Bui	Adapting a Motor Intervention App for Autistic Preschoolers: A Qualitative Study	Nicholas Fears
50	Mika Ndikumana	Test-Retest Reliability of IMU-Derived Tibial Acceleration during Walking, Running, and Squatting at Self-Selected Speeds	Hyun Kyung Kim
54	Olivia Perry	Real-Time Decision-Related Cortical Dynamics in People with Anxiety Disorders	Chris Hill
57	Laniyah Thurman	Bridging the Gap: Real-Time Assessment of Visuomotor Integration in Structured Daily Tasks	Nicholas Fears
44	Diana Turcanu	Lipid Droplet-Associated Mitochondria Preserve Membrane Potential after Muscle Contraction	Hailey Parry

HUMANITIES & SOCIAL SCIENCES

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
40	Francisco Guajardo	Self-Compassion as a Predictor of Well-Being in Caregivers of Children with Autism: A Review of the Literature	Amy Mikolajewski

MASS COMMUNICATION

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
1	Mary Margaret LeBlanc	Life Ethics in the Digital Age: A Comparative Study of Catholic Anti-Abortion and Anti-Death Penalty Messaging on Social Media	Michael Henderson

MUSIC & DRAMATIC ARTS

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
3	Michael "Mickey" Hogan	"Darling of LSU": Huey Long, Castro Carazo, and the Lost Song of LSU	Warren Kimball

SESSION C: 1:30 - 3:00 PM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

ART & DESIGN

#	Student	Title	Mentor
6	Amy Andalib	Architecture of Extraction: Militarism and the Production of the Global Ecological Crisis	Elijah Borrero
2	Ana Cuadros Vargas	Rethinking Earthen Architecture in Latin America: Culturally Authentic and Sustainable Contemporary Design in Peruvian Schools	Robert Holton
1	Kamu Pancholi	Indigenous Communities and Climate Resilience: Nonprofit Efforts in Preserving Heritage and Adapting to Environmental Threats in Coastal Louisiana	Fabio Capra-Ribeiro
3	Skylar Vollmer	ArchiCrochet: Bridging Architecture and Crocheting through a Fabricated Tension Structure	Farzaneh Oghazian

COAST & ENVIRONMENT

28#	Student	Title	Mentor
44	Alani Andreasen BM	Measuring Change in Opinion on AI Between Two Groups: Using Experimental Design	Muhammad Saifuddin
31	Jackson Baldwin	Examination of Long-Term Trends in Tropical Cyclone Patterns in the Gulf of Mexico	Hank Dolce
48	Larissa Boldor BM	Examining LSU Lake Remediation Impact on Surrounding Soil, Water, and Plant Biodiversity	Vann Boyte
34	Sofia Bosch	Assessment of Organic Algaecide Effects on Cyanobacterial Growth in the Lake Pontchartrain Estuary	Sibel Bargu Ates
37	Jack Bourgeois	Diversity of Infaunal Invertebrates in Submerged Aquatic Vegetation (SAVs) in Barataria Bay & the Atchafalaya Delta, LA	Cassandra Glaspie
43	Jemarya Butler	Comparing Parasites Found on Store-Bought Hermit Crabs and Wild-Caught Hermit Crabs	Kathryn Motley
38	Kimauri Ferguson SM	Germs Just Wanna Have Fun (on Door Push Bars): Testing Cleaners on High-Touch Surfaces	Sarah Brannum
29	Rojan Hakamiha	Hydrodynamic/Hydrological Computer Simulation in Terrebonne Bay, Louisiana	Haosheng Huang
35	Taylor Horton	Integrating Scientific Modeling and Environmental Financing for Urban Resilience	Thomas Douthat
47	Rana Kizilkaya BM	Best Friends 'Forever': Measuring PFAS Concentrations in Varying Locations throughout Baton Rouge	Gage Hunter
45	Dominic McCall SM	The Mighty Duckweed: Growth of Common Duckweed (<i>Lemna minor</i>) Affected by Multiple Stressors	Lauren Eagon
40	Siena Mcknight M	How is Ocean Acidification Communicated in Local Media?	Isabelle Townsend
36	Ollie Patterson	Lower Trophic Level Monitoring in Barataria Bay and Atchafalaya Basin	Cassandra Glaspie
32	Julianna Rhodes	The Effects of Natural Disasters on Human Migration Utilizing Network Metrics: Case Studies of Flood Exposure in Hurricanes Katrina-Rita, the 2016 Louisiana Floods, and Hurricane Harvey	Thomas Douthat

SESSION C: 1:30 - 3:00 PM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

COAST & ENVIRONMENT

#	Student	Title	Mentor
28	Emily Shapiro	Substrate Specific Feeding Patterns of Parrotfish in Near Shore Reefs of Xpu Ha, Mexico	Steve Johnson
46	Maheba Siddiqui BM	Pea Plants vs Pollutants: Battle for Survival	Faustina Owusu
39	Kedrick Sims Jr. M	Trash Man, Trash Man, Yeah That's Me! - An Assessment of Soil Nutrient Content	Melaan Bender
33	Macie St. Romain	Prevalence of Antibiotic Resistant Bacteria in Freshwater Mussels in Louisiana	Crystal Johnson
42	Dulcia Williams M	University Lakes Restoration Dredging Impacts Are the Invertebrates Okay?	Abby Roche
41	Elise Wilson BM	A Study of Air Pollution Concentration and Asthma Prevalence in East Baton Rouge Neighborhoods	Edwin Torres-Moya

HUMANITIES & SOCIAL SCIENCES

	Student	Title	Mentor
90	Ava Achberger	The Moderating Role of Parenting in the Relationship between Callous-Unemotional Traits and Aggression	Amy Mikolajewski
81	Hannah Alm-Gibson	Self-Talk and Decision-Making: How Do Overt and Covert Self-Talk Influence Confidence in Decision-Making?	Teairra Evans
54	Courtney Barrett	Does Retrieval Practice Promote Word Learning within a Story Reading Experience?	Eileen Haebig
50	Adrienne Bodine	A Study of /l/ Consonant Cluster Acquisition in Young Children	Hyunju Chung
18	Alarryal Bradley	Black Women's Career Paths to the U.S. Congress	Nichole Bauer
55	Mikayla Buenafe	Understanding Early Language Development across Dialect Contexts: The Role of Caregiver Reinforcement	Julie Schneider
21	Eva Carter & Tyhlar Holliway	How Does Candidate Gender Affect Who Boasts About Endorsements in Campaign Ads?	Nichole Bauer
68	Raegan Carter	The Cow by the Farmers Was... Misleading: The Role of Working Memory and Animacy in Agreement Errors	Janet McDonald
82	Isabel Crumley	An Examination of Protective and Contributing Factors of Suicidal Ideation in Sexual Minority Youth	Ryan Hill
53	John Delamain	Examining the Agreement Between Parent-Reported and Directly-Coded Parent Behaviors of Scaffolding Child Language Skills	Eileen Haebig
57	Rory Dries	Understanding How Autistic Children's Profiles Change Based off of Varying Minimally Speaking Definitions	Eileen Haebig
73	Avery Ellis	Oh the [De]Humanity: Which Type of Dehumanization [Other, Self, Meta] is Linked to Making Online Threats	Colleen Sinclair
78	Kaitlyn Ferretti & Mia Stelly	Subjective Memory Appraisals in Very Late Life	Katie Cherry
17	Madeleine Fitkin	How Does the United Nations Convention on the Law of the Sea Protect Vietnamese Oil Endeavors Inside the Vietnamese Exclusive Economic Zone?	Scott Madere

SESSION C: 1:30 - 3:00 PM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

HUMANITIES & SOCIAL SCIENCES

#	Student	Title	Mentor
58	Allie Folse, Marissa Price, Victoria Walker, Silvia Rivet & Taylor Davis	Production and Reception in Aphasia: Examining Interactive Systems [PRAXIS]	Willem van Boxtel
27	Ian Frick	Cultural Identity in Acadiana in the 21st Century	Sarah Franzen
13	Imojin Fury L	Effectiveness of Diaphragmatic Breathing on Stress and Cognition	Kate Yurgil
63	Meghan Garcelon	Relevant Responses are Retrieved Faster in Familiar Contexts	Christopher Cox
51	Zoey Gautreau & Greta Barrett	Undergraduate Students' Awareness and Knowledge of Phonological Dialectal Variation: A Survey Study	Hyunju Chung
86	Katherine Gladney	The Mood Disorder Assessment Schedule and the Child Mania Rating Scale-Parent Version: Comparing How Manic/Hypomanic Symptoms Are Measured in Adolescents	Ryan Hill
61	Marissa Goldthorp	Melodies and Meaning: Can Children's Music Implicitly Induce a Context?	Christopher Cox
65	Francisco Guajardo	Exploring the Mediating Effects of Impulsivity on the Relationship Between Negative Emotionality and Alcohol Use in College Students.	Elia Soto
59	Ashley Hart	Fine-Grained Changes to Implicit Memory for Language Processing Across Adulthood	Willem van Boxtel
84	Kendrick Hunt & Wynn Williams SU	The Relationship between Ethnic Identity and Perceived Attractiveness among African-American College Students	Jaymes Durriseau
89	Meghna Kalagara	Examining the Impact of Anxiety on the Recognition of Threatening Facial Cues	Amy Mikolajewski
52	Chelsea Kasuli	Do Parent-Reported Scores Align with Observation-Based Coding of Parent Responsivity?	Eileen Haebig
64	Yasmin Khan	Behavioral & Physiological Effects of Dietary Protein Restriction in C57BL/6J Female Mice	Paul Soto
71	Aditya Khutale	Eye Movement Strategies in Mental Rotation: Linking Spatial Reasoning Performance to Visual Fixation Patterns	Melissa Beck
19	Isabella Knighten	The Impact of State-Level Reproductive Policies on Women's Political Empowerment in the United States	Nichole Bauer
20	Mary Ellen Luft	Gender Socialization and its' Effect on Women's Political Ambition in Louisiana	Nichole Bauer
85	Bryona Lyons & Trinitee Hills SU	The Relationship among Facial Features and Perceived Attractiveness of African-American Males	Jaymes Durriseau
66	Anna Mathews	Examination of Self-Esteem and Organizational Skills across ADHD Presentations	Elia Soto
77	Cameron McCleary	Memory for Everyday Chores in Younger and Older Adults	Katie Cherry
26	Amanda Meaux	Desalinating Pottery Sherds in the Lab and the Field from Paynes Creek Salt Works, Belize	Heather McKillop
72	Marianna Mickey	Perceived Burdensomeness, Thwarted Belongingness, and Stigma Differing between Black and White College Students on Help-Seeking Behaviors	Daniel Capron

SESSION C: 1:30 - 3:00 PM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

HUMANITIES & SOCIAL SCIENCES

#	Student	Title	Mentor
60	Ally Miller	Detecting the Presence and Severity of Narrative Language Production Deficits in Aphasia Using EEG Recording during Spontaneous Speech	Willem Van Boxtel
80	Niya Mogheeth	Freshman without an Orientation: A Mixed-Methods Study Examining Why Black Students Transfer to HBCUs and the Impact of Institutional Support and Student-Faculty Relationship Quality on their Motivation and Achievement	Teaira Evans
9	Eseoghene Mukoro	Feelings and Futures: Social Design Addressing Identity and Engagement of Adolescent Girls in a Community Organization	Danielle Thomas
69	Madison Nguyen, Delaney Belanger & Georgia Wetzel	Exploring the Relationship of Social Media Use with Social Comparison and Envy	Janet McDonald
14	Nathan Noe	Candidate Quality in State Legislative Elections	Robert Hogan
70	Bridget Ott, Ursula Chindia, Noella Brigman & Katherine Gladney	Stream with Envy - The Role of TikTok Engagement on States of Emotion	Janet McDonald
74	Brookelyn Pasipanki & Avery Ned	Action Research in Action: How Lab Findings Informed Change in Baton Rouge's Math Classrooms	Colleen Sinclair
10	Tiffany Pham, Zachary Decuir, Heather Hardy & Megan Wilson	How South Louisianians Perceive and Experience Extreme Weather and Climate Change: An Interview Study	Kevin Smiley
8	Monae' Polk	Performing Victimhood the Right Way: A Megan Thee Stallion Case Study	Catherine Jacquet
79	Lan Qiu	Dual Nicotine and Cannabis Use among Asian American and Pacific Island Adults: The Role of Anxiety and Negative Reinforcement Expectancies on Nicotine Outcomes	Julia Buckner
83	Sasha Quintanilla	Experimental Analysis of Variables Influencing Choice during Conversation	Samuel Morris
30	Taseen Rahman	Optimal Ways of Sampling into the Past Recorded by the Atlantic Coral <i>Siderastrea siderea</i>	Kristine DeLong
76	Senora Rodgers	Sociocultural Influences on Family Communication about Reproductive Health among College-Aged Women	Teaira Evans
16	Ava Ryder	Water Privatization's Disproportionate Effect on Women during the Cochabamba Water War	Scott Madere
56	Marguerite Schwarz	Longitudinal Analysis of Speech Variation in Children	Chung Hyunju
11	Sabrina Smith	New Monument, Same Old Racism: Local Responses to the Construction of a Counternarrative Monument	Heather O'Connell
15	Tamia Stevens	Political Polarization in the Digital Age: The Role of Social Media Algorithms	Makayla Stephens-Jones
12	Emma Suarez L	Effects of Chronic Predator Odor Stress on Appetitive Processing	Claire Stelly
22	Isabel Sullivan	Regulating the Table: How Federal Food Policy Changed Everyday Eating in New Orleans during the World Wars	James Gregory
62	Francesca Thomassee	Semantic Control in the Prefrontal Cortex: An ALE Meta-analysis	Christopher Cox

SESSION C: 1:30 - 3:00 PM

Posters & Visual Displays | Royal Cotillion Ballroom, Room 250

HUMANITIES & SOCIAL SCIENCES

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
87	Adam Vedros	Does Satisfaction with Safety Planning Type Interventions Differ between Heterosexual and Sexual Minority Identities?	Ryan Hill
75	Hailey Wene	Uncovering the Mysteries of Memory: An Analysis of Strategies in a Learning Task	Emily Elliott
67	Elena Whatley	Understimulated or Overloaded?: Leveraging Sensory Sensitivities to Enhance Cognitive Performance in College Students	Elia Soto
24	Zoe Whitton	The Shifting of the Arid-Humid Divide in the Central United States	Huanping Huang
23	Abigail Williams	Property Insurance Losses: A Gulf Coast Hurricane Analysis	Jill Trepanier
25	Benjamin Winkelman	Classic Maya Architectural Wood Selection	Heather McKillop
49	Rei Zimmerman	Building Blocks: Social Construction of Gender Roles in Children's Literature	Ashley Mack

LSU MUSEUM OF ART

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
7	Venecia Lee	The Research of Ivory Pieces from the Eastern and Western Worlds to the Global South	Michelle Schulte



ART SHOW

1:30 - 3:00 PM | Royal Cotillion Ballroom, Room 250

#	Student	Title	Medium	Mentor
97	Sebastian Crandall	Star of the Show	Digital modeling, 3D printing, Ceramic	Christine Bruening
95	Lauren Harper	ti fré/fré mwen	Acrylic, Oil	Kelli Kelley
94	Aubrey Landaiche	The Portrayal of Women in Horror Films: An Art Collection	Oil	Kelli Kelley
96	Alexis Persicke	Perspective Of	Inkjet photographic prints, Pinhole silver gelatin prints	Kristine Thompson

PERFORMANCES

9:00 - 9:45 AM | Red River, Room 323

Time	Student	Title	Mentor
9:00	Autumn Herring	Hidden in Hate: An LGBTQ+ Story	Joni Butcher
9:15	Jerrit Duhon UL	Pinkfairy Witchcraft	Maegan Shea
9:30	Ethan Strunc	Those Who Fly Too Close to the Sun	Mara Gibson



ORAL PRESENTATIONS

VIEUX CARRÉ, ROOM 325

9:00 AM - 2:00 PM

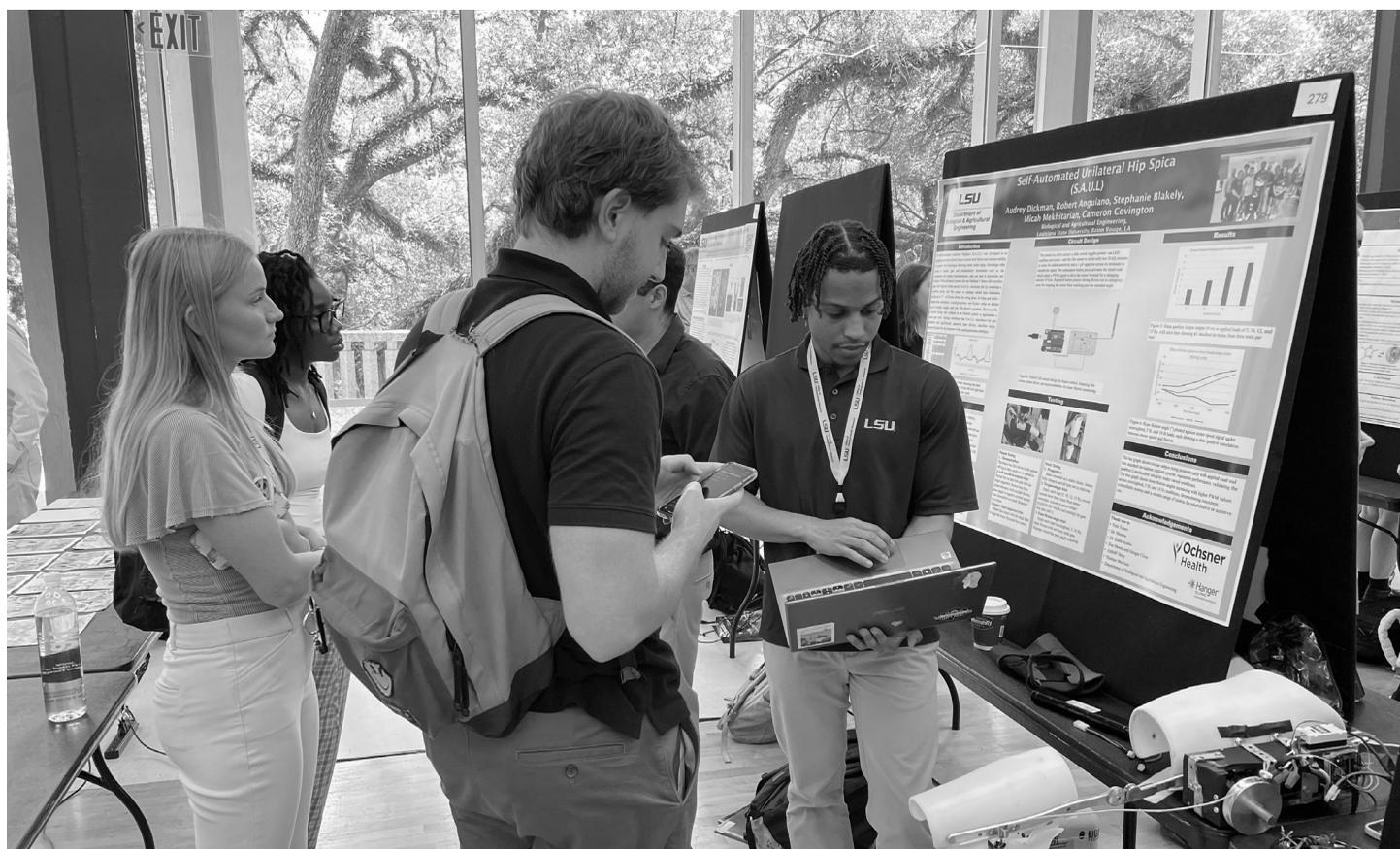
<u>Time</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
9:00	William Morales	Tracking a Linguistic Innovation: A Sociolinguistic Investigation of Intensifiers in Three Spanish-Speaking Communities	Rafael Orozco
9:15	Hannah Pedigo	Linking Semantic Cognition and Phonological Processing	Jason Scimeca
9:30	Laila Mullen UN	Student Motivation and Learning Outcomes Following Participation in Purple Martin [<i>Progne subis</i>] Conservation on the UNO Campus	Rachel Clostio
9:45	BREAK		
10:00	Sarah Walton	Deviance and Monstrosity: How Marginalized Identities and Monsters Collide	John Fletcher
10:15	Lucrezia Tomassetti	Implementing Gender-Based Provisions: An Analysis of the History and Challenges in Colombia	Scott Madere
10:30	Saige Berthelot L	Platonic Parallels	Roger White
10:45	BREAK		
11:00	Katilyn Kemper UL	Evaluating Flood Exposure and Resilience of Public Buildings in Coastal Louisiana	Donggyu Lee
11:15	Javad Dehghan UE	Beyond the Catch: Human Drivers, Ecological Impacts, and Solutions to Ocean Overfishing	Yolanda Obazo
11:30	William Sexton	EmRiver Stream Table Dam Removal Demonstration	Clint Willson
11:45	Camille Beeding	Environmental Sustainability on a Daily Basis: The Effects of Routine Environmental Stewardship on an Individual and Group Scale	Vanessa van Heerden
12:00	BREAK		
1:00	Megan Summitt UA	How Hilbert's 23 Problems Invigorated Mathematical Fields	Roger Sidje
1:15	Scott Whitman UL	A Formula for the Probability of Spheres Linking in Euclidean Space	Robin Koytcheff
1:30	Lilia Lopez Medina	Synthesis of Compact Rotaxane Photoswitches to Study the Effect of Non-Covalent Interactions on Photophysical Properties	Victor Garcia-Lopez
1:45	Broderick Wong	Synthesis and Characterization of bis-BF ₂ BODIPY Analogs	Graça Vicente

ORAL PRESENTATIONS

CAPITAL CHAMBER, ROOM 329

11:00 AM - 2:45 PM

<u>Time</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
11:00	Sophia Klosowski	Investigating Learning and Self-Regulation among Pre-Nursing Students in General Chemistry	Zakiya Wilson-Kennedy
11:15	Faye Sciple	Deeper Learning: Exploring Collaboration and Creative Interaction within General Chemistry	Zakiya Wilson-Kennedy
11:30	A'Maya Freeman	How First-Year Academic Expectations Shape First-Year Students' Perception of STEM	Zakiya Wilson-Kennedy
11:45	BREAK		
1:00	Icyss Sargeant	mTOR Signaling Effects on Macrophage Activity in <i>Polypterus senegalus</i>	Igor Schneider
1:15	Madison Adams	Divergent Oxygen Strategies of Aquatic Vertebrate Regenerators	Igor Schneider
1:30	Adry Gage	Phylogenomics and Phylogeography of <i>Liocanthyrus</i> (Coleoptera: Noteridae), a Genus of Neotropical Aquatic Beetles	Stephen Baca
1:45	BREAK		
2:00	Minh Tu	Ectomycorrhizal Monodominance in the Tropics: A Modeling Approach	Gaurav Kandlikar
2:15	Jenna Moseley	Exposure-Mediated Differences in Morphological and Growth Responses of <i>Botrytis cinerea</i>	Melanie Madrigal
2:30	Caroline Henry	Effects of Captivity on the Cloacal Microbiomes of an Invasive and Native Anole Species	Christine Lattin

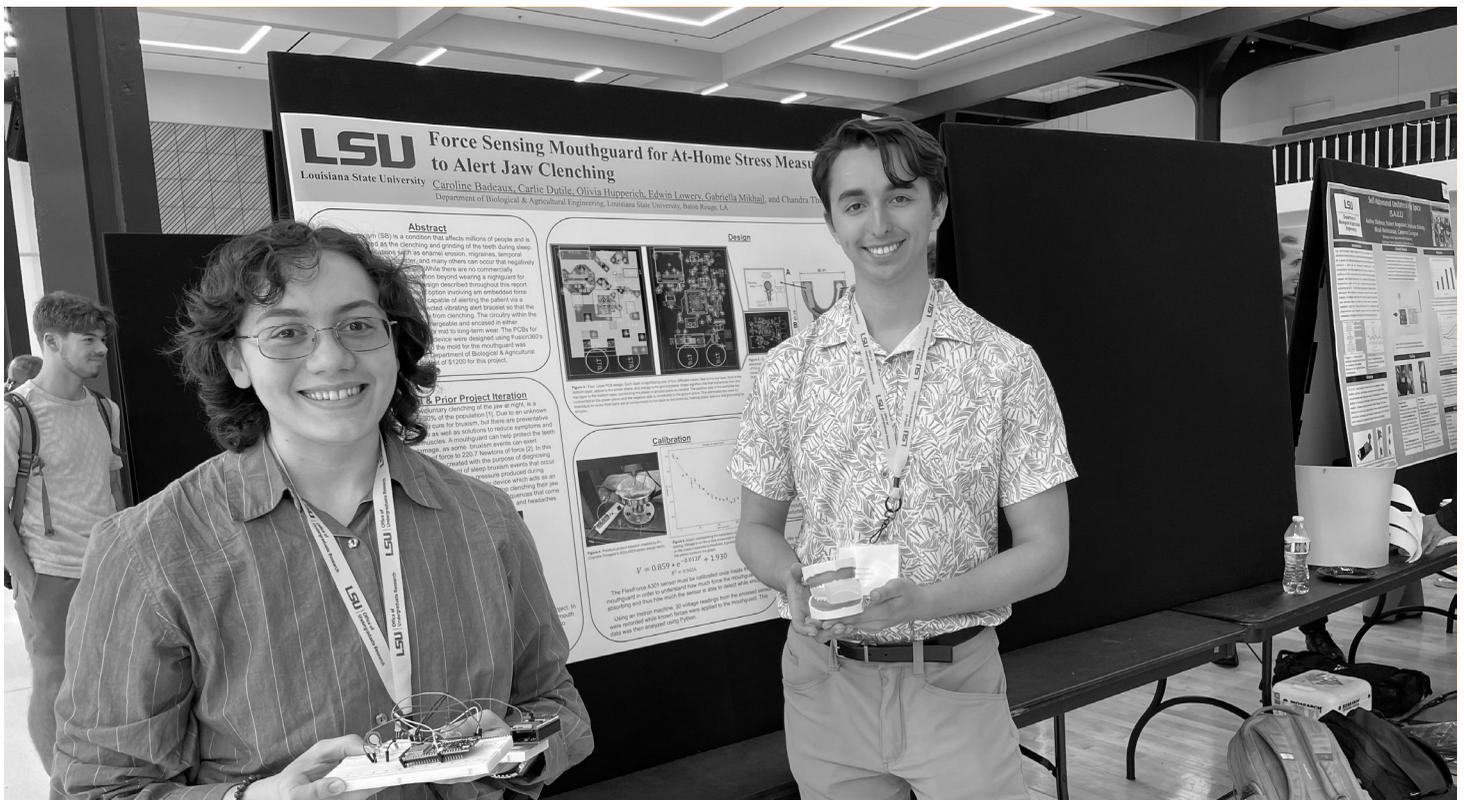


ORAL PRESENTATIONS

CASTILIAN, ROOM 304

12:00 PM - 2:45 AM

<u>Time</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
12:00	Kate Langlois	Comparative Analysis of Depression and Self-Esteem Levels during the Menopause Transition	Leanne Redman
12:15	Kynlee Farris	Physiological Adaptation in Pregnancy Shaped by Stress: The Impact of Socioeconomic Status and Allostatic Load	Leanne Redman
12:30	Lauren Leger	Advancing Diabetes Research: A New Animal Model with Less Fat Tissue	Jacqueline Stephens
12:45	BREAK		
1:00	Sydney Junot	Effects of Leptin Replacement on Metabolic Adaptations to Starvation	David McDougal
1:15	Binh Kirsch, Thomas Bradford	Modeling Early-Life Stress-Induced Alcohol Drinking in Mice	Ethan Anderson
1:30	Yau Si Loh	TLRL Adjuvant Approach to Intranasal Universal Vaccines Against Influenza	Michael McGee
1:45	BREAK		
2:00	Ashleigh Godke	Measuring 25-Hydroxyvitamin D ₃ Concentrations in Captive Northern Blue-Tongued Skinks (<i>Tiliqua scincoides intermedia</i>) Fed a Cat Diet	Mark Mitchell
2:15	Kailey Landry	Saving America One Eagle at a Time! Predicting Outcomes for Bald Eagles (<i>Haliaeetus leucocephalus</i>) Presented to the Wildlife Hospital of Louisiana from 2020-2025	Mark Mitchell
2:30	Tanisha Bailey SU	The Effects of Feeding a Fermented Complete Feed Diet on 4-6-Week-Old Broilers	Jodi Morton



ORAL PRESENTATIONS

INTERNATIONAL, ROOM 303

9:00 AM - 1:45 PM

<u>Time</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
9:00	Chloe Trevino	She's Nice, But...	Anas Mahmoud
9:15	Suyog Karki SE	Experiment with Google File Search to Develop a Learning Agent	Minh Huynh
9:30	Ahnaf Chowdhury	A Multimodal Vision-Language AI System for Accurate Identification of Invasive Insect Species in Louisiana	Ivan Grijalva
9:45	BREAK		
10:00	Anders Olson, Alex Asevedo & Kristophe Sauviac	TigerSense: Real-Time AI Process Monitoring	José Romagnoli
10:15	Rider Holcomb & Katsumasa Kawahara	Towards Rocket Plume Assisted In-Situ Construction Processes Supporting Extraterrestrial Exploration Activities	Shyam Menon
10:30	Alexander Tepper, Caymann Dominique, Layla Hopkins, Anna Bohannon & Emma Conner	Development of a Rapid Multi-Point Pressure Measurement System	Philip Jung
10:45	BREAK		
12:00	Sudhakar Chaulagain & Suyog Karki SE	AI-Generated Code: How Secure Is It?	Minh Huynh
12:15	Joshua Jones	Clicks that Count: Optimizing Digital Call-to-Action Strategies for LSU's Multifaceted Student Audiences	Aaron Gleiberman
12:30	Rami Burks	Goal-Oriented Engagement: Comparing the Reach of NHL and PWHL on Instagram Reels and TikTok	Joshua Jackson
12:45	BREAK		
1:00	Mika Devillier	Socioeconomic and Political Determinants of Cybercrime Victimization: Evidence from FBI Cybercrime Data 2016-2023	Ali Ahmed
1:15	Michael Vu LU	Can We Exploit Abnormal Stock Returns from Effective Date Delays?	Jamie Kurash
1:30	Garrett Wainright	Hedonic Analysis of Invasive Aquatic Plants on Property Values in Louisiana	Jerrold Penn

ORAL PRESENTATIONS

RED RIVER, ROOM 323

Note: Performances held in this room from 9:00 - 9:45 a.m. See page 22 for details.

10:00 AM - 2:00 PM

<u>Time</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
10:00	Michael "Mickey" Hogan	Exploring the French School of Flute Playing from 1860 to the Present: An Informed Performance of Pierre Sancan's <i>Sonatine</i> [1946]	Katherine Kemler
10:15	Corey Keller	<i>La Pentecôte fresco</i> : Maurice Denis' Visual Remedy for a Fractured France	Darius Spieth
10:30	Mikayla Judd	Recovering Betsy Cole: Black Womanhood and Entrepreneurial Spirit of Jazz During the Age of Jim Crow	K. Stephen Prince
10:45	BREAK		
11:00	Nsreen Saleh	Reimagining Education: Breaking the Fence and Recovering LSU's Silenced Histories	Jennifer Cramer
11:15	Joy Fayrweather	The Culinary Curtain: How Communism Shifted Central European Gastronomy	Meredith Veldman
11:30	Abigail Ramsay UL	Folkloric Crossover Between Shared Oppression: An Analysis of Louisiana and Irish Myths	Sarah M. Gawronski
11:45	BREAK		
1:00	Sydney Lawson	Novel Abietane Derivatives: Evaluation of Therapeutic Potential Against Triple Negative Breast Cancer	Fatima Rivas
1:15	Claire Matherne	Absorption of Bromocresol Green Using a Zirconium-Based Metal-Organic Cage	Noémie Elgrishi
1:30	Tai Hua	Core Ionization Induced Femtosecond Valence Electron Dynamics	Kenneth Lopata
1:45	George Tisdale	Lithium Complexes of Azaarenes and Amines: Insights for Li-ion Batteries and Coordination Chemistry	Clifton Wagner

PANEL

PURSuing CAREERS IN RESEARCH

3:30 - 4:30 PM | Capital Chamber, Room 329

Dr. Ethan Anderson	Assistant Professor, Comparative Biomedical Sciences	Louisiana State University
Dr. Erik Johnson	Assistant Professor, Wildlife Management	Louisiana State University
Dr. Heather McKillop	Thomas & Lillian Landrum Alumni Professor, Anthropology	Louisiana State University

KEYNOTE SPEAKER

Dr. Crystal Johnson

Join us at 5:15 PM in the Atchafalaya, Room 339 for Dr. Johnson's keynote speech



Dr. Crystal N. Johnson is an associate professor in the LSU Department of Environmental Sciences in the College of the Coast and Environment. She earned her bachelor's degree in cell and molecular biology at Tulane University in 1997 and her Ph.D. in microbiology at the University of Alabama at Birmingham in 2004.

As an undergraduate researcher at Tulane University, she studied phytohormones and quickly fell in love with lab research. As a doctoral student, she studied antibiotic resistance in *Streptococcus pneumoniae*. As a postdoc at the University of Southern Mississippi's Gulf Coast Research Laboratory, she fell in love with vibrios and other autochthonous microbes and

how they interact with their surrounding environments. She now focuses on *Vibrio parahaemolyticus*, *Vibrio vulnificus*, and other microbes that occur naturally on the coast of Louisiana and beyond.

She has received funding from the National Science Foundation (NSF), the National Aeronautics and Space Administration (NASA), the Louisiana Sea Grant (LSG), and the Louisiana Board of Regents (BoR).

Even before she joined the LSU faculty as an assistant professor in 2009, she was a champion of young scientists participating in lab research as early as high school. Since joining the LSU family, she has hosted dozens of undergraduates in her BSL-2 lab and encouraged thousands more to take advantage of the prolific and creative research opportunities available at LSU. One of her undergraduate researchers, Andrew Schwartz, was awarded LSU's 2023 Student Employee of the Year.

When the ever-popular icebreaker question of "What would you do if you did not need money?" comes up, her answer remains "Exactly what I am already doing." She does not take this for granted. She loves sharing her scientific passions with any receptive audience, whether they are a teenager, a politician, a fellow scientist, or her own grandmother. Also, she loves birding.

RESEARCH AMBASSADORS

The Office of Undergraduate Research would like to thank all our volunteers and especially the Research Ambassadors.

Research Ambassadors are LSU undergraduates who encourage and assist other students in getting involved in undergraduate research opportunities. The ambassadors take part in a variety of activities including, but not limited to: talking to classes/student orgs/freshmen groups, volunteering at research-related events, and mentoring students looking for research opportunities.

Students interested in undergraduate research may contact a Research Ambassador directly with questions. Research Ambassadors are also available to speak to student organizations or classrooms. If you have questions about the program you can contact them at LSUresearchambassadors@gmail.com.

Interested in joining Research Ambassadors? Find them on Tigerlink!



CAMPUS FEDERAL CREDIT UNION

Thank you to Campus Federal Credit Union for providing the refreshments in the Royal Cotillion Ballroom.



SPECIAL THANKS

The Office of Undergraduate Research thanks all of the individuals and groups who contributed to the success of LSU Discover Day 2026. In particular, we thank our keynote speaker, Dr. Crystal Johnson, Interim Provost Dr. Troy Blanchard, and Vice President of Research & Economic Development, Dr. Robert Twilley. We also thank Carsyn Martel at the Student Union for venue coordination. We are greatly appreciative of our volunteers, judges, the Research Ambassadors, and the LSU Office of Undergraduate Research staff for their assistance with the coordination of this event. We are especially thankful to the colleges and faculty who financially contributed to this event.

THANK YOU

College of Agriculture
College of Art & Design
E.J. Ourso College of Business
College of the Coast & Environment
College of Engineering

College of Human Sciences & Education
College of Humanities & Social Sciences
Manship School of Mass Communication
College of Music & Dramatic Arts
College of Science

Office of Undergraduate Research Faculty Advisory Board

Office of Undergraduate Research Staff

Mike Benton, *College of Engineering*
Michael Blandino, *Ogden Honors College*
Gbenga DadeMatthews, *College of Human
Sciences & Education*
David Dockan, *College of Music & Dramatic Arts*
Joseph Francis, *School of Veterinary Medicine*
Joshua Grimm, *Manship School of Mass Communication*
Christine Lattin, *College of Science*
Giulio Mariotti, *College of the Coast & Environment*
Janet McDonald, *College of Humanities & Social Sciences*
Erin McKinley, *College of Agriculture*
T.J. Rakitan, *E.J. Ourso College of Business*
Huili Wang, *College of Art & Design*
Rei Zimmerman, *Student Representative, Research
Ambassadors President*

Sarah Ferstel, *Director*
Tori Clement, *Business Manager*
Ella Magerl, *Program Manager*

Kailey Landry, *Student Worker*
Abigail Glass, *Student Worker*
Misbah Patel, *Student Worker*

ASTRONAUT MIKE

A big thank you to Brooke Faget for designing Astronaut Mike!

Brooke Faget is a senior with an expected graduation date of May 2026. Brooke is pursuing a Bachelor of Fine Arts in Studio Art with a concentration in Digital Art, along with a minor in Printmaking.

Be sure to check out more of her work on Instagram @boo.marie!

DISTINGUISHED UNDERGRADUATE RESEARCHER PROGRAM

Did you know that a Discover Day presentation counts towards the Distinguished Undergraduate Researcher Distinction? The LSU Distinguished Undergraduate Researcher designation recognizes the achievements of outstanding LSU undergraduates who participate in a track of educational and research activities leading to a final and public presentation or publication of a faculty-mentored undergraduate scholarly project. An LSU Distinguished Undergraduate Researcher is a student who has demonstrated outstanding ability as an advanced student researcher in their discipline. Distinguished Researchers will be honored at a special medal ceremony in their graduating semester and the designation will be noted on their transcripts.

LSU undergraduates from any major are eligible to enroll in the program before their final semester at LSU.

For more information, scan the QR code below:





LSU

Office of Undergraduate Research

 lsu.edu/our

 lsuour@lsu.edu

 [@lsu_our](https://www.instagram.com/lsu_our)