

Discover Undergraduate Research Program

DISCOVER Day [2024]

LSU Undergraduate Research & Creativity Conference APRIL 19, 2024

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27	Distinguished Undergraduate Researcher Program

WELCOME TO LSU DISCOVER DAY 2024!

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

Time	Event	Location
7:30 a.m 6:00 p.m.	Check-In Desk Open	2nd Floor East Lobby (next to Cotillion Ballroom)
8:00 a.m 8:30 a.m.	Breakfast and Welcome Remarks	Cotillion Ballroom, Room 250
9:00 a.m 12:00 p.m.	Oral Presentations Topics: Social Sciences, Arts, & Humanities	Capital Chamber, Room 329 Castillian, Room 304 International, Room 303 Vieux Carré, Room 325
9:00 a.m 11:00 a.m.	Morning Poster Session Topics: Science, Technology, Engineering, & Mathematics	Cotillion Ballroom, Room 250
10:00 a.m 11:00 a.m.	Performances	Red River, Room 323
11:30 a.m 12:30 p.m.	Presenter Lunch Break	Atchafalaya, Room 339 Magnolia, Room 301
12:00 p.m 3:15 p.m.	Oral Presentations Topics: Science, Technology, Engineering, & Mathematics	Capital Chamber, Room 329 Castillian, Room 304 International, Room 303 Red River, Room 323
12:00 p.m 3:00 p.m.	Student Panel - The Academic Study of Religion at LSU: A Variety of Approaches	Vieux Carré, Room 325
1:00 p.m 3:00 p.m.	Afternoon Poster & Visual Display Session Topics: all	Cotillion Ballroom, Room 250
1:00 p.m 3:00 p.m.	Art	Cotillion Ballroom, Room 250
3:30 p.m 4:30 p.m.	Panel - Pursuing Careers in Research	Capital Chamber, Room 329
5:00 p.m 6:30 p.m.	Keynote Speech & Awards Ceremony Keynote Speaker: Dr. Margaret Reams	Atchafalaya, Room 339

ABOUT LSU DISCOVER

The LSU Discover Undergraduate Research Program hosts Discover Day and promotes and supports student participation in faculty-mentored research and creative activities. For students looking to become involved in undergraduate research, we offer assistance in finding a mentor, events to learn more about undergraduate research, and opportunities to talk to research students about their experiences in any major. For students who are currently involved in undergraduate research, we offer funding for research and travel, workshops, and the Distinguished Undergraduate Researcher Program.

To learn more about LSU Discover, visit lsu.edu/discover

GUEST WI-FI

Network: LSU Guest Wireless

Username: DD24

Password: 179155

ROYAL COTILLION BALLROOM MAP POSTER & VISUAL DISPLAY PRESENTATIONS

STAGE					
FOOD AND BEVERAGE	GRADUATE SCHOOLS UNO LSU				
112111110109108107113114115116117118	106 105 104 103 102 101 95 96 97 98 99 100				
124123122121120119125126127128129130	94 93 92 91 90 89 83 84 85 86 87 88				
136135134133132131137138139140141142	82 81 80 79 78 77 71 72 73 74 75 76				
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196195194193192191197198199200201202	22 21 20 19 18 17 11 12 13 14 15 16				
206 205 204 203 207 208 209 210	10 9 8 7 6 1 2 3 4 5				
211					
ENTRANCE					

Morning Session | 9:00 - 11:00 AM | Royal Cotillion Ballroom, Room 250

All presenters are Louisiana State University students unless otherwise noted.

- KEY
- A | American University **N** | Nicholls State University B | Baton Rouge Community College R | Rhodes College BM | Baton Rouge Magnet High School SMC | Saint Mary's College BU | Baylor University CS | California State University - Fresno
- LU | Longwood University
- L | Loyola University New Orleans MN | McNeese State University
- SM | Scotlandville Magnet High School
- SH | Siena Heights University
- SE | Southeastern Louisiana University
- SU | Southern University A&M
- TC | Texas Christian University

- TU | Trinity University
- UC | Univeristy of Central Florida
- UL | Univeristy of Louisiana Lafayette
- **UNO** | University of New Orleans
- UNT | University of North Texas
- UT | University of Texas at Austin
- <u>Title</u> <u>#</u> Student Mentor 157 Fabiana Aquilera The Effect of Different Binder Materials on a Working Electrode for CO₂ Noémie Elgrishi Vaca Diez Reduction in Water 115 Kaitlyn Andre **Digestible Dog Toys** Naohiro Kato 107 Zamira Andrews **su** Testing for Changes in Haplotype Frequencies under Increasing Morgan Kelly Environmental Hypoxia in Crassostrea virginica 135 Dakota Babin Volatile Chemical Traits of Phragmites australis – a Key to understanding James Cronin Resistance to Herbivory and Coastal Marsh Dieback Alexandra Barton Student's Perception of Learning in a General Chemistry Course Zakiya Wilson-166 Kennedv Kaelie Bernard Nathaniel Gilbert 131 Investigating the Activity and Conformation of 5-Lipoxygenase in the Presence of Novel Inhibitors Fatima Rivas Brayden Blackburn Studies of Secondary Metabolites of the American Beautyberry Fruiting 158 Bodies 132 Avery Bourdonnay Generating Photo-Convertible Fluorescently Tagged Proteins to Study Alyssa Johnson Lysosomal Dynamics 180 Za'Kyriaha Brock SM Got Salt? A Relationship between Oysters and Sediment Diversions Vanessa van Heerden Jasmine Brown Accuracy of Digital Anthropometry during Pregnancy: A Longitudinal Steven Heymsfield 140 Study Virulence Differences Across Multiple Generations of the Fall Armyworm, Bret Eldred 117 Madeline Broyles Spodoptera frugipera 133 Jacob Carignan Effect of Chronic Stress on Microglia in the Entorhinal Cortex Juhee Haam Confocal Subcellular Localization Study of Deg Proteases in David Vinyard 145 Lexi Cheramie Chlamydomonas reinhardtii Moving Forward toward Microbial Biofuel--Do Diatoms Develop Syd Clay Brent Larson 124 Differently under Various Light Intensities? Polymerization-Induced Crystallization-Driven Self-Assembly of 160 **Deztiny Clemons** Donghui Zhang Polypeptoid Block Copolymer towards Efficient Synthesis of One, Two, and Three Dimensional Nanostructures 109 Abigail Coldwell Molecular Adaptations of an Enzyme Regulating DNA Topology in Jeremy Brown Extremophilic Bacteria 147 Dezarae Coleman Kinetic Analysis and Small-Molecule Inhibition of *Thermoanaerobacter* Johnna Roose brockii Alcohol Dehydrogenase Using Simple Pyrazole Derivatives

Morning Session | 9:00 - 11:00 AM | Royal Cotillion Ballroom, Room 250

<u>#</u>	<u>Student</u>	Title	Mentor
178	Samaria Cosey s M	Funki Fungi: Growth of Mushrooms on Different Substrates	Vanessa van Heerden
159	Victoria Delacruz	Synthesis of Natural Product Derivatives and Their Interference on Cancer Proliferation	Fatima Rivas
110	Sashoya Dougan	Investigating Evolutionary Patterns of Limb Loss in Squamates: A Comparative Genomics Approach	Brant Faircloth
163	Maya Dunn	Synthesis and Characterization of a Pyrrole Derivative	Sebastian Oloo
161	Carlie Dutile	Synthesis and Characterization of Cobalt-Centered Complexes for Nitrite Reduction in Water	Noémie Elgrishi
127	Ashley Florance	Developing the Ideal Genetic Background for Photosystem II Research in Synechocystis sp. PCC 6803	David Vinyard
156	Julian Flores Meza N	Ab Initio Calculations of the Relative Product Yields for the Dehydration of 2-Methylcyclohexanol	Glenn Lo
113	Sydney Gemeinhardt & Lisa DiMaggio B	Defining the Preferred Substrates of Louisiana Freshwater Sponge Species	Mary Miller
138	Danielle Gipson	Using Age Benchmarks to Predict Characteristics and Severity of Aggressive Breast Cancer	Emmanuelle Ruiz
146	Emma Glasgow	Responses of Tribolium castaneum and Tribolium confusum to Beauveria bassiana Using an Olfactometer	James Cronin
181	Haiden Guillory	Characterizing Reaction Rates of 34Cl + p during Classical Novae By Examining 32S + 6Li Fusion Reaction	Catherine Deibel
183	Gianna Hammill	Expanding Knowledge of Nuclear Structure with Quantum Simulations	Kristina Launey
111	Amanda Harvey	Temporal Analysis of the Genetic Health and Trophic Ecology of Coastal Breeding Common Nighthawks	Nicholas Mason
176	Treasure Hawkins sm	How Does Carbon Sequestration Differ between Flooded and Unflooded Environments	Vanessa van Heerden
168	Alison Hecht	Understanding the Impacts of Polymer Molecular Weights on Protein/ Polymer Complex Coacervation	Amy Xu
141	Caroline Henry	A Retrospective Study on Species Richness and Diversity in Infections during Secondary Penile Prostheses Surgery	Gerard Henry
148	Hayley Howard & Destiny Marvel B	Can Sediment Analysis Be Used to Further Describe Species Richness of Freshwater Sponges?	Mary Miller
144	Maia Jackson	The Effects of Ethanol Preservation on High-Molecular Weight DNA	Brant Faircloth
184	Beau Johnson, Joyce Oluwaseun	Ultraviolet Spectrum of the Corona vs the Photosphere	Aaron Ryan
136	Harper Juge	Ups and Downs: Underlying Genetic Mechanisms of a Short Sleep Model in <i>Drosophila</i>	Alyssa Johnson
173	Rorisang Kgoadi	Modelling Seiche Waves in Yellowstone Lake towards Understanding Lake Volcanic Interactions	Karen Luttrell
137	Benjamin Klein	A Potential Sexual Dimorphism: The Involvement of Oxytocin Receptor Neurons in the Anteroventral Periventricular Nucleus during Pup Retrieval by Male Mice	Ryoichi Teruyama
169	Katy Knecht	Cobalt and Copper Electrocatalysts for the Aqueous Reduction of Nitrite	Noémie Elgrishi
170	Sydney Lawson	Phytochemical Studies of the American Beautyberry Bush	Fatima Rivas

Morning Session | 9:00 - 11:00 AM | Royal Cotillion Ballroom, Room 250

<u>#</u>	Student	Title	Mentor
152	Daniel LeLorier	Dinaphthofuran-Based Lithium-Ion Receptors	Semin Lee
121	Anna Leyrer	Impact of Environmentally Persistent Free Radicals on the Airway Epithelial Membrane Integrity	Stephania Cormier
172	Liam Lopez	Optimizing Local Polynomials with Conformal Prediction	Li-Hsiang Lin
139	Marcella Malatrasi L	Bioinformatics-Guided Mutagenesis of Erythromycin Resistance Methyltransferases Reveals Regions Required for Antibiotic Resistance	Allyn Schoeffler
162	Lily Manzi L	Using Python to Create a Linear Extrapolation Fitting Code to Analyze Experimental Protein Denaturation Data	Allyn Schoeffler
134	Trinity Martin L	The Temperature Dependence of DNA Gyrase Supercoiling Activity	Allyn Schoeffler
153	Madeline McHugh	The Synthesis of a Benzopinacol Derivative	John Pojman
177	Kiyana McKnight sm	New Strategy for Apple Snail Baiting	Vanessa van Heerden
143	Peyton Meares	Alpha Di-Functionalization of Cyclopentanones with Indole	Rendy Kartika
154	Simone Moreau & Carlos Villalobos L	Optimizing Asymmetric Rhodamine Derivatives for Sensor Applications	Clifton Stephenson
122	Yousef Mosleh	Sympathetic Nervous System Innervation in the Adipose Tissue of OSMRFKO Mice and the Role of the OSM/OSMR Crosstalk in Metabolic Homeostasis	Heike Muenzberg
149	Sadie Noble	Investigating Simple Coacervation of Bovine Serum Albumin with PEG Crowding: A Comprehensive Characterization	Amy Xu



Morning Session | 9:00 - 11:00 AM | Royal Cotillion Ballroom, Room 250

<u>#</u>	Student	Title	Mentor
165	Mitchelle Okoli L	Understanding and Optimizing the Molecular Switch Potential for a Range of Aziridine Derivatives	Clifton Stephenson
129	Ella Otken	Set1 Lysine Methyl Transferase Activity is Required for Extended Heterochromatic Silencing in Yeast rpd3 Mutants	David Donze
119	Tamieka Palmer & Rose Dawes B	Examining Changes in Species Richness through a Comparison of Two Ecological Studies	Mary Miller
108	Jorge Parada	A Transcriptomic Analysis with a Proteomic Compliment in a Novel Salt Tolerant Plant	Maheshi Dassanayake
167	Brennan Poole	Formation of Void during Frontal Polymerization in an Epoxy System under the Influence of a Thermally Conductive Material	John Pojman
171	Lillian Powell	Road Traffic Management in Baton Rouge during LSU Sporting Events	James Madden
155	Colette Rainey	Analysis of Proteins Generated from Pesticide Poisoning	Mandi Lopez
164	Abigail Reviel L	Developing Methodology for the Separation and Quantification of Algal Communities within Lake Pontchartrain Basin via LCMS	C.J. Stephenson
128	Lauren Rogers	Kinetic Analysis of Fucoxanthinol Production from Fucoxanthin	Naohiro Kato
123	Ria Salway	Analyzing Population Structure and Color Variation between Populations of <i>Nucella lamellosa</i>	Morgan Kelly
174	Ashlyn Schneida	Evaluating Site Resonance Frequency with Horizontal-to-Vertical Spectral Ratios from Dense Arrays across the Tepetate-Baton Rouge Fault System, US Gulf Coast	Patricia Persaud
112	Jeanne Smith	On Your Mark, Get Set, Escape! Variation in Predator Responses among Populations of the Marsh Snail <i>Littorina littorea</i>	Morgan Kelly
182	Nils Sommerfeld	Statistical Analysis of Stochastically Generated Free Electron Laser Pulses	Francois Mauger
118	Emily Stelling	Differences in Behavior and Stress-Induced Corticosterone between Native and Invasive Anoles	Christine Lattin
125	Emma Stevens & Mina Sheikh	Bacteria-Induced Internal Egg Hatching in Caenorhabditis elegans	Fan Zhang
150	George Tisdale	Characterization of the Chemical Behavior of Main-Group Metal-HMDSs with Lewis Acids and Bases	Clifton Wagner
175	Alexa Tullier	Overlapping Crater and Fault Lithostratigraphy in Elysium Planitia Using Hi-RISE Imagery	Suniti Karunatillake
126	Tyra Washington	Advancing Aging Research: An Analysis of Methodologies Applied in the Study of Pexophagy in <i>Caenorhabditis elegans</i>	Adam Bohnert
116	Sam Webb ut	Characterization of Heavy Metal Tolerance Genes in the Model Organism, <i>Panicum hallii</i>	Aleah Henderson- Carter
114	Mackenzie Weeks	The Investigation of the Mechanism Responsible for Different Signals across Codon Positions in the Phylogenetic Analysis of HIV	Jeremy Brown
130	Lillian Wilder	"From Lab to Life:" Do Wearables Accurately Estimate Physical Activity Levels in Pregnant People with Obesity?	Leanne Redman
120	Dykia Williams	Characterizing Structure-Function Relationships on the Acceptor Side of Photosystem II	David Vinyard
151	Kenneth Williams	Reactions of LiN(SiMe3) Dipp with CuCl & Quinoxaline	Clifton Wagner

Morning Session | 9:00 - 11:00 AM | Royal Cotillion Ballroom, Room 250

KINESIOLOGY

<u>#</u>	<u>Student</u>	Title	Mentor
67	Ethan Abbenante	Adolescents' Perceived Neighborhood Safety: Relationship with Visceral Adipose Tissue and Cholesterol Levels	Amanda Staiano
75	Miranda Chodzko	Impact of Aerobic Exercise Training on Circulating Myokines in Colorectal Cancer Survivors	Guillaume Spielmann
77	Tiernan Dautle & Iresa Lincoln	Upper Extremity Movements during Feeding in Autistic Children	Nicholas Fears
71	Katie Haydel & Rachel Schlosser	Coronary Artery Bypass Grafts in a Human Cadaver	Melissa Thompson
83	Mary LoGiudice & Catherine Sorrels	Impact of Continuous, Low-Dose-Rate Neutron Irradiation during Gestation on Fetal Development	Heather Allaway
69	Rylie Neal	Cadaveric Discovery of an Anomalous Forearm Muscle	Melissa Thompson
81	Mikah Ortiz	A Cross-Cultural Examination of Fitness Levels among College Students in Italy and the United States	Ryan Hulteen
79	Jared Rodrigue	Does a Brief and Simple 100% Oxygen Treatment Improve Sustained Attention Levels?	Marc Dalecki

AGRICULTURE

<u>#</u>	<u>Student</u>	Title	Mentor
188	Jadyn Allement su	A Pilot Review of Veterinary Care Attitudes in the Livestock Industry	Tyra Davis
201	Madisen Babin su	Effects of Herb Inclusion on Laying Hen Diets for Egg Production and Nutrient Content	Harold Mellieon
186	Ashton Dalton	Sucrose Acetate Isobutyrate for Delivery of a Single Intramuscular Injection of Follicle Stimulating Hormone for Follicular Stimulation in Beef Cattle	Kenneth Bondioli
189	Destinae Davis su	Animal Health and Production and Animal Products	Harold Mellieon
196	Payton Floyed	Influence of Environmental Conditions on Shelter Tube Construction in the Formosan Subterranean Termite	Qian "Karen" Sun
202	Myriel Green	Effects of Menadione on Food Consumption and Survival of the Formosan Subterranean Termite, <i>Coptotermes formosanus</i>	Qian "Karen" Sun
179	Courtney Guilbeaux su	Effects of Storage Length, Fermentation Type, and Feed Type on the Nutrient Profile of Fermented Swine Feed	Jodi Morton
193	Allison Jane Hamilton	Functional Characterization of the β -1,6-glucan Synthase Gene, KRE11, in Magnaporthe oryzae	Ely Oliveira-Garcia
191	Sophie LeBlanc	Extending Ungulate Embryo Development In Vitro	Constantine Simintiras
195	Kevin Quinet	Understanding the Habitat Preferences of Juvenile Blue Crabs in Louisiana Estuaries When Presented with Food Cues	Theresa Davenport
185	Jack Rogers	Avian Niche Ecology in Rice and Crawfish Agrisystems	Kevin Ringelman
194	Jose Rojas-Iracheta	Exploring the Impact of Rice-Associated <i>Pantoea ananatis</i> on Bacterial Panicle Blight of Rice	Jong Ham
187	Claire Scheufens	The Influence of Fermented Feed on Pig Growth and Wellbeing	Jodi Morton
190	Koi Wedderburn su	The Effects of 3-Day Fermented Feed on Broiler Growth	Jodi Morton
192	Aris Williams	Quality and Yield Responses of Louisiana Tea to Nitrogen Fertilizer Treatments	Yan Chen

Morning Session | 9:00 - 11:00 AM | Royal Cotillion Ballroom, Room 250

COAST & ENVIRONMENT

<u>#</u>	<u>Student</u>	Title	Mentor
85	James Anderson	Hurricanes and Harmful Algal Blooms: Determining the Primary Phosphorus Source Linking These Events	John White
106	Jai'Dyn Bickham sm	Acting Crabby: A Behavioral Study of Hermit Crabs	Brian Snyder
95	Morgan Coleman & Gillian Coleman	The Influence of Disease Resistance on Reproduction in <i>Montastraea</i> cavernosa	Daniel Holstein
99	Brandon Green SM	Heavy Consequences of Dredging: Bioavailability of Metal Pollutants in LSU Lakes	Brian Snyder
101	Kalaja Johnson sm	Is Taro in the Cards for a Cleaner Future?	Brian Snyder
91	Madison Liotta	Dredging Impact on the Environment inside and outside a Borrow Area for Coastal Restoration	Kehui Xu
93	Abhi Mehrota B	Unveiling Louisiana's Hidden Gems: Exploring Freshwater Sponge Diversity and Monitoring through Passive Sampling	Mary Miller
104	Stephanie Procopio	Manganese-Mediated Nitrogen Transformation in Suboxic Gulf of Mexico Porewaters	Linda Hooper-Bui
87	Dakota Sievers	Regenerating or Ghost Forest? A.E. LeBlanc Woods Natural Area	Linda Hooper-Bui
97	Kimani Shropshire SM	Dredging in LSU Lakes: Turning over a New Leaf and Old Nutrients	Brian Snyder
89	Patricia Thibodeaux	Comparing Arthropod and Plant Communities across Natural and Created Brackish Marshes in Louisiana	Michael Polito
103	Harmony Young sm	What the Flock is Happening at LSU Lakes?	Brian Snyder



Morning Session | 9:00 - 11:00 AM | Royal Cotillion Ballroom, Room 250

ENGINEERING

<u>#</u>	<u>Student</u>	Title	Mentor
30	Sharonda Angelle	Depolymerization of Waste Plastics by Induction Seating	Bernard Whajah
41	Erin Barker	Improving the Efficiency of High-Volume Mass Production in a 3-D Print Farm Using Remote Access Server Software	Isabelina Nahmens
17	Emly Bracey, Avery Olinde, Olivia Henderson & Cody Thompson	An Efficient, Low-Cost System for Creating External Ear Prostheses for Patients Undergoing Auriculectomy/Lateral Temporal Bone Resection	Philip Jung
25	Calley Chauvin	3D Co-culture of Adipose Derived Stem Cells with ER+ Breast Cancer Cells Using a Microfluidic Droplet Trapping Array to Study Endocrine Resistance	Michael Benton
35	Eva Counts, Elizabeth Peters, Oliver Dean, Khai Lejeune, Madisson Boutte & Mikayla Powell	Soybean Cutting Device	Kevin Hoffseth
33	Cailynn Gerald, Chloe Marino, Jacob Lincoln, Brady Billiot & Travis Sharpe	Smart PPE for Biometric Monitoring to Prevent Heat Exhaustion	Nick Totaro
13	Talajha Hunter	Water-Soluble, Carbonated Polymers Made by Additive Manufacturing	Fareed Dawan
16	Anna Johnson, Andrew James, Corrine Martin & Nick Demas	Force Sensing Mouthguard for At-Home Measurements to Track Jaw Clenching	Chandra Theegala
23	Chelsea Le, Stefany Crosby, Peyton Piper & Jonathan Escobar	Design of a Hemostatic Seal Strength Measurement System	Marybeth Lima
31	Mingyang Li	Malware Analysis of the "Biscuit" Win32 PE Program with Anti- Debugging Features	Golden Richard
14	Britney Nguyen	Plant-Derived Compounds Direct Adipose-Derived Stromal Cell Differentiation into White or Brown Fat	Todd Monroe
27	Elena Nikolaychuk, Kateland Howard, Nestor Alvarez- Rodriguez & Ansu Andrews	Design of a Cell-Free Protein Synthesis Reaction Chamber	Yongchan Kwon

Morning Session | 9:00 - 11:00 AM | Royal Cotillion Ballroom, Room 250

ENGINEERING

<u>#</u>	<u>Student</u>	Title	Mentor
21	Erinn Roblee, Patrick Haydell, Kirsten Malone, Joseph Randall, Nicholas Bair & Jaime Cordova	Tumor-on-a-chip: A Microfluidic System to Culture and Evaluate Cancer Tissue Scaffolds	Todd Monroe
37	Aditya Srivastava	Optical Vibration Analysis: Exposing Sound Leakage in Transparent Settings	Chen Wang
12	Samantha Staggs	Investigating Cloud Aerosol Production in the Planetary Cloud Aerosols Research Facility through Rayleigh-Bérnard Convection	Patrick Mensah
29	Long Tran & Ethan Nguyen	The Effect of High Wind Loads on Ground-Mounted Solar Panels	Aly Aly
39	Peter Vallet, Brandon Walton, Brandon Turner & Serene Sam	Leveraging Language Models for Insight into Patent Similarity	Roy Haggerty
15	Stephen Wheat	Murine Colonoids and Bone Marrow Derived Macrophages as Models for Macrophage-Mediated Regenerative Response in the Intestinal	Stefan Kalies









Morning Session | 9:00 - 11:00 AM | Royal Cotillion Ballroom, Room 250

VETERINARY MEDICINE

<u>#</u>	<u>Student</u>	Title	Mentor
57	Kayla Brown	Comparing the Lung Function of Mice Exposed to Dual Usage Cigarettes Plus E-Cigarettes and JUUL Using Plethysmography	Alexandra Noël
43	Camilo Fernandez Bellorin	Investigating the Role of Viral and Cellular Kinases in Dynein-Dependent Herpes Simplex Virus 1 Neuronal Transport	Konstantin Kousoulas
55	Samantha Huszar	Respiratory Effects of Maternal Vaping on Offspring in a Mouse Model	Alexandra Noël
61	Jemiah Maxie	Endothelial Dysfunction Induced by Inhalation of Environmentally Persistent Free Radicals (EPFRs) is Regulated by AhR Activation in AT-2 Cells	Tammy Dugas
59	Do'Monique Noel uc	Preparation of Assembly Sample of TMEM106b C-Terminal	Bo Chen
49	Zaneta Ogunmola	Horseshoe Effects on In Vivo Equine Gait Kinetics during the Walk	Mandi Lopez
47	Isabella Paul	The Effects of Vaping on Cell Tumor Growth	Joseph Francis
65	Kaitlyn Perkins	High-Throughput Screening in Tyrosine Kinase Inhibitor Activity in Glioblastoma Cells	Joseph Francis
51	Courtney Price	Costochondral Bone Graft Replacement for Temporomandibular Joint in a Porcine Model	Mandi Lopez
53	Emma Tsai	Effects of Developmental Exposure to Microplastic Leachates on Development and Behavior of Larval Zebrafish (<i>Danio rerio</i>)	Ahmed Abdelmoneim
63	Hang Vu	Effect on pH after Room Temperature Storage of E-Liquids	Alexandra Noël

POSTERS

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

ART

<u>#</u>	<u>Student</u>	Title	Mentor
200	Aya Hijazi	Carbon Emissions of the Built Environment	Fabio Capra Ribeiro

BUSINESS

<u>#</u>	<u>Student</u>	Title	Mentor
20	Caroline Broussard UL	Beauty Brands' Digital Marketing Techniques and Their Connection to Brand Loyalty in Gen Z Consumers: A Literature Review	Lucy Henke
18	Briana Dalton & Jack Urbanek	Hook, Line, and Security: An Analysis of Phishing Simulation Training in Higher Education	A.J. Burns
22	Ryan Gremillion & Blake Edwards	Kiddie Consumers: Unveiling the Economic Aptitude of Preschoolers in Simulated Market Environments	Nawar Nayeem
24	Morgan Oen	The Consequences of Globalization on Housing Markets in Low-Income Countries	Jamie Kurash

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

HUMAN SCIENCES & EDUCATION

<u>#</u>	<u>Student</u>	Title	Mentor
26	Emily Craig se	Effective Math Teaching Strategies in a 5th-Grade Classroom with Predominantly ELL Students	Lindsey Caillouet
34	Joseph Faccinei	Predictiveness of Community Connectedness and Social Support on Substance Use Behavior Change	Shawndaya Thrasher
32	Nat Sumner	The Digital Divide and Structured Inequality	Michelle Livermore
28	Lilli Xiang UNT	Resident Assistant: Facilitating Growth for First-Year Students in Residence Halls	Nicholas Cornett

HUMANITIES & SOCIAL SCIENCES

<u>#</u>	Student	Title	Mentor
88	Pratha Amin & Robyn Shaw	Polysyllabic Shortening in Hindi-English Bilingual Speakers	Todd Gibson
74	Olivia Amorando	Sexism and Cannabis-Related Problems among Women: The Role of Negative Affect and Coping Motivated Cannabis Use	Julia Buckner
76	Kori Balaam	African Americans and Environmental Trauma: Impacts of the 2005 Hurricane Katrina and the 2020 Pandemic	Katie Cherry
46	Andrea Bickley	Nature in the Workplace: Exploring Effects on Job Satisfaction, Turnover Intentions, and Workspace Satisfaction	Rebecca Brossoit
44	Jackson Bolner	A Qualitative Examination of Perceived Burdensomeness in Emerging Adults	Ryan Hill
84	Mikayla Buenafe	Assessing Child Language Development in Single and Dual Caregiver Contexts: A Comparative Study	Julie Schneider
68	Kaylee Cannon	Impact of Higher Physical Activity Levels on Attentional Performance in Young Adults	Matthew Calamia
90	Ann Crabtree	Medicine and Popular Consciousness in Nineteenth-Century Britain	Meredith Veldman
66	Will Decker	The Neural Processes of Statistical Learning	Christopher Cox
92	Nathaniel Dela Pena	A Mapping of German Prisoner of War Camps in the Former Soviet Union	Susan Grunewald
60	Gavin Faucheux	Hurricane Ida's Lasting Impact: Post-Traumatic Growth among Younger and Older Adults	Katie Cherry
82	Marcus Forest	Ongoing Racial Bias in the PPVT: Implications for "Word Gap" Researchers	Julie Schneider
102	Henry Hanks	Dental Health and Treatment as an Indicator of Racial Inequality and Socioeconomic Status in Unidentified Persons in Louisiana	Teresa Wilson
36	Gavin Juge, Micah Williams & Symone Walton	Flood Watch	Kevin Smiley
105	Linley Kennedy	Identifying a Minimally Destructive Method for Detecting Enamel Defects in Human Teeth	Teresa Wilson
56	Alena Knieper	Uncovering Memory Differences: Insights from Near-Miss Recall Errors in Autistic and Non-Autistic Adults	Heather Lucas
86	Anais Kobinger- Wessel	Cross-Linguistic Influence in Trilingual Speakers	Todd Gibson

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

HUMANITIES & SOCIAL SCIENCES

<u>#</u>	Student	Title	Mentor
58	Lauryn Liddell, Gavin Faucheux, Jayleen Ducelus & Mayce Brown	Memory Fears in Later Life	Katie Cherry
50	Mollie McMichael	Racism and Alcohol-Related Problems among Black Adults: The Role of Negative Emotionality to Experiencing Racism	Julia Buckner
48	Kayla Melerine	Theory Mapping of Autism and Borderline Personality Disorder: How Personal Theories Impact Social Ratings	Matthew Calamia
94	Ella Menard, Nana Ana Agyeman, Eva Carter & Tyhlar Holliway	Behind the Podium: Exploring Gender Dynamics in Political Endorsements	Kenlea Barnes
52	Colette Mouton & Gabrielle Mellor	Are Risk-Takers Happier?	Don Zhang
78	Landry Rase, Anna Grace Franques & Jordyn St. Cyr	Word Final /I/ and /r/ Production in Young Female Adults in Louisiana	Hyunju Chung
54	Alyson Rivers	Suicide Safety Planning Specialization for Sexual and Gender Minority College Students	Ryan Hill
38	Simranjeet Sekhon cs	The Journey of Gender Roles: Experiences within Migration and Marriage of Punjabi Immigrant Women in Fresno County	Katherine Fobear
70	Lilly Small	Memory in the Oldest-Old: When Does Forgetting Bother a Nonagenarian?	Katie Cherry
80	Alexa Smith	The Predictive Validity of Language Screeners for Children	Janna Oetting
42	Alyssa Spears	Motivating a Math Mindset: The Development and Application of Theory-Grounded Measures of Math Motivation in Diverse Student Populations	H. Colleen Sinclair
100	Elise Strain & Khaleel Ouedraogo	Family Matters: How Parenthood Affects the Campaigns of Men and Women	Kenlea Barnes
72	Amelia Todd	Replication of Geospatial Identification of Elevated Suicide Risk	Ryan Hill
40	Gabriele Troxclair	DEI in SEC Schools: An Analysis of University Websites, State Legislation, and Interviews with Current DEI Professionals	Mark Schafer
98	Zoe Whitton	Impacts of the COVID-19 Pandemic on Comedy	Naomi Bennett
96	Lailah Williams & Elizabeth Dukes	Money Talks: How Men and Women Candidates Differ in Their Fundraising Appeals	Kenlea Barnes
64	Kevin Zheng & Khiem Truong	Exploring Personality and Cognitive Skills: Insights into College Achievement	Emily Elliott
		MUSIC & DRAMATIC ARTS	

<u>#</u>	<u>Student</u>	Title	Mentor
198	Hali Alex	William Grant Still's Symphony No.2 "Song for a New Race": A Musical Explanation of Double Consciousness	Cecilia Kang
199	Yu Yang	Social Support, Mentorship, and Performance Anxiety: Perspectives of Current LSU Music Performance Undergraduate and Graduate Students	Kamile Geist

VISUAL DISPLAYS

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

<u>#</u>	<u>Student</u>	Title	Mentor
203	Jose Betancourt, Nicholas Buxton, Ethan Petix & William underwood MN	Smart Solar Panel Monitoring System for Enhanced Power Optimization	Cunzhi Zhao
197	Ashleigh Brindle & Joanne Kaouk	Enhancing the Strength of QuickCure Clay by Altering Filler and Initiator Concentrations	John Pojman
204	Cole Brumfield	Modification of Robotic Arm for Cryopreservation Quality Control	Yue Liu
7	Anthony Chiasson	Geochemical Analysis of Tetrapod Teeth from a Permian Red Bed near Seymour, TX	Achim Herrmann
1	Tanielma Costa	Impacts of Vision-Based Autonomous Driving Technology on Energy Conservation of Transportation Systems	Xiangyu Meng
205	Victor Gischler	Louisiana: Sounds of the Coast	Brian Nabors
4	Whitney James	Investigating the Genotoxicity and Cytotoxicity of Aromatic Amines to Immortalized Whale Lung Fibroblasts	James Wise
8	Joel Keller	A GUI for Electromagnetics in Layered Media	Stephen Shipman
208	Eryn Kennedy	Limiting Ethanol Crossover by Integrating a Porous Proton Layer in Electrochemical Reduction of CO2	John Flake
209	Darrin Lea	Threat Modeling Industrial Control Systems	Golden Richard
6	Huey Ying Loh	Determining the Physiological Function of LCIC	James Moroney
206	Victoria Lopez, Yilin Zheng & Angeline Asa	Beyond Static Solutions: Strategies for Cooling in Climate Zone 2A Utilizing Kinetic PV Panels in Diagrid Formation	Soo Jeong Jo
207	Zarin Musarrat Manita, Sheb Deaton, Ivory Roberts & Cristina Gil MN	Design of Planetary Rovers with a Control Center	Bei Xie
5	Shradha Pokharel N	Synthesis of Ferrocenophanes with Hydrazide Linker for Anion Recognition	Uttam Pokharel
2	Jonathan Russell	Are Increasing Global Sea Temperatures Linked to Changing Tropical Cyclone Induced Tornadic Distribution along the U.S. Gulf of Mexico Coast	Robert Rohli
10	Bridget Seghers	Alligator, It's What's for Dinner: The Alligator as a Food, Product, and Cultural Icon in Louisiana, Past and Present	Leslie Tuttle
3	Anna Stebbins	Can Freshwater Flooding Be Detected in Eastern Oyster (<i>Crassostrea virginica</i>) Shells Using Isotopic and Trace Elemental Signatures as Environmental Proxies?	Kristine DeLong
210	Andrew Whitehead, Alejandro Duncan, Andrew Cagle, Bryan Solano, Han Wang	Innovating FORTIFIED Building Education through 3D Interactive Modeling	Carol Friedland
9	Ruizhuo Zhang	Evaluating the Effectiveness of Quantitative Skeletal Age Estimation Methods Compared to Traditional Qualitative Methods	Krista Bennett



1:00 - 3:00 p.m. | Royal Cotillion Ballroom, Room 250

<u>#</u> Student

<u>Title</u>

Blood in the Water, Water in the Lungs

<u>Media</u>

Digital Photography, Archival Inkjet Prints Mentor

Johanna Warwick

211 Brooke Chouest

PERFORMANCES

10:00 - 11:00 AM | Red River, Room 323

<u>Time</u>	<u>Student</u>	Title	Mentor
10:00	Ilaani Hill, Genesis Foster	The Effects of Culture on Communication throughout the Wyatt Houston Day Collection of African American Literature	Ethan Hunter
10:15	Adam Richards	Love in All Its Fickle Forms	Robert McKinnon
10:30	Catherine Lindsey	Eudaemonia	Henry Goldkamp
10:45	Leah Hulin	The Little Green Dude	Henry Goldkamp



VIEUX CARRÉ, ROOM 325

9:00 a.m. - 11:15 a.m.

<u>Time</u>	<u>Student</u>	Title	Mentor
9:00	Celeste Patron	Investigating the Effect of Frontal Aslant Tract Stimulation on Speech and Motor Inhibition: An HD-tACS/EEG Study	Karim Johnson
9:15	Aaren Fernandez SMC	Going Viral: Language Analysis of Psychological Traits as Seen on TikTok	Kaycee Bills
9:30	Madison Moore A	FRACAS: A Game of Chaos and Connection	Edward Helfers
9:45	Madeline Bowen BU	Self-Assessment of Rest among Texas PreK-12 Music Educators	Kelly Hollingsworth
10:00	BREAK		
10:30	Amy Ruckman	"Immortal Longings": Reifying and Remaking Textuality in Shakespeare's Interracial Relationships	Chris Barrett
10:45	Amy Ruckman	"Strutting about in Mans Attire": Disability, Crossdressing, and Queercrip Solidarity in Belinda the Blind	Chris Barrett
11:00	Sydney Whitfield	A Sociolinguistic Analysis of Intensifiers in Spanish	Rafael Orozco
11:15	Miscia Fortna	Motifs and Symbols to Express Ma'rifah in Conference of the Birds	Gregory Stone
11:30	Miscia Fortna	On the Usage of Reasoning in the Empiric School of Medicine	Usha Nathan

CAPITAL CHAMBER, ROOM 329

9:00 a.m. - 2:45 p.m.

Time	Student	Title	Mentor
9:00	Brooke Rayburn	Race-Based Trauma Induced Social Dominance Orientation: An Exploratory Study	Jas Sullivan
9:15	DeShanta Jefferson su	Exploring the Relationship between Ethnic Identity and Attentional Control in the First Person Shooter Task	Jaymes Durriseau
9:30	Darlina Tran	Emerging Asian American College Students: Building Self-Management and Self-Awareness Skills through Cultural Adaptation Intervention	Danbi Choe
9:45	Camryn White & Jacob Averett se	Exploration of Unconscious Biases Made by College Students Based on Race and Gender through a Vignette Experiment	William Chernoff
10:00	Aishia James su	Using Natural Language Processing (NLP) to Investigate Racial and Gender Biases in Al-generated Text	Jaymes Durriseau
10:15	BREAK		
10:30	Bailey Shoulders	The Effect of Musical Experience on Lexical Tone Perception Efficiency of Non-tonal Language Speakers	Janet McDonald
10:45	Zachary Roberts su	The Impact of Attentional Control and Working Memory Capacity on Visual Search	Jaymes Durriseau
11:00	Rachel Cole su	Exploring the Correlation between Emotion and Music through Natural Language Processing	Jaymes Durriseau
11:15	Gabrielle Mellor	You Work like a Girl: Understanding Evaluations of Masculinity Violations in the Workplace	Vanessa Burke
11:30	Marina Magnant TC	Leveraging Athletic Success to Guide Institutional Strategic Branding Decisions: A Case Study on TCU'S Historic 2022 Season	Lance Bettencourt
11:45	BREAK		

CAPITAL CHAMBER, ROOM 329

9:00 a.m. - 2:45 p.m.

Time	Student	Title	Mentor
12:00	Bridget Seghers	Developing Equations to Correct for the Effect of Lipids on Stable Isotope Values in Invasive Silver Carp Tissues	Michael Polito
12:15	Vivian Liu	Summertime Precipitation Anomalies near Industrial Facilities along the Lower Mississippi River Valley	Paul Miller
12:30	Jackson Thelen, Caroline Buendia & Audrey Griffith R	Analysis of Presumptive Chemoautotrophic Caves in Tennessee and Alabama	James Engman
12:45	Abby Roche	Investigating Benthic Communities amongst the Northern Gulf of Mexico's Hypoxia Ridden Dead Zone	Cassandra Glaspie
1:00	BREAK		
1:15	Jameson Woodall	Sedimentary History of the Mississippi River Pass-a-Loutre Outlet from Sediment-Core Analysis and 210Pb/137Cs Geochronology	Sam Bentley
1:30	Olivia Degreenia	Exploring Environmental Drivers of Morphological Variation in <i>Centropogon</i> Subgenus <i>Centropogon</i>	Laura Lagomarsino
1:45	Jackson Kirn	A Search for Salt Tolerance Genes by Exploring Diverse Plant Genomes	Maheshi Dassanayake
2:00	Hannah Holliday	Root Architecture of <i>Schrenkiella parvula</i> under Exogenous Auxin and NaCl Stress	Maheshi Dassanayake
2:15	Sophia Matylis	Agriculture on Mars: Effects of Perchlorate Stress on Plants	John Larkin
2:30	Samantha Sanders	Secrets below the Surface: Tracing the Origins of Soil Organic Matter in Coastal Louisiana Marshes Using Stable Isotope Analysis	Laura Lagomarsino

RED RIVER, ROOM 323

12:30 p.m. - 3:15 p.m.

Time	Student	Title	Mentor
12:30	Tai Hua	Electrons on the Move: A Student's Introduction to Time-Dependent Quantum Mechanics	Kenneth Lopata
12:45	William Smither	Efficacy and Physiochemical Evaluation of Naturally Occurring Peroxides as Potential Chemotherapeutic Agents	Fatima Rivas
1:00	BREAK		
1:15	Angelina Liemkeo, John Holley, Caroline Davis & Abigail Peck	Ultraviolet Spectrum of the Corona vs. the Photosphere	Aaron Ryan
1:30	Stephanie Armond	Quantitative Comparison of TDDFT-Calculated High Harmonic Generation Yields in Ring-Shaped Organic Molecules	Mette Gaarde
1:45	Christian Foti	Nitric Oxide Induced Vasodilation in Networks of Blood Vessels: Feasibility of a Computational Model of the Basic Chemical and Physical Mechanisms	Wayne Newhauser
2:00	BREAK		
2:30	Samuel Elliott	Relationships between Fungal Soil Endophytes and Phragmites australis	Vinson Doyle
2:45	Allison Huddleston	LSU AgCenter 2023 Southern Louisiana Cucumber Variety Trial	Heather Kirk- Ballard
3:00	Lucas Rot	Effects of Patch Size and Avian Community Composition on Amazonian Rainforest Soundscapes	Phil Stouffer

CASTILLIAN, ROOM 304

9:00 a.m. - 3:00 p.m.

<u>Time</u>	<u>Student</u>	Title	Mentor
9:00	Gigi Powers	The Clash of Values: Understanding Attitudes toward Due Process Protections in Sexual Assault Cases on College Campuses	James Garand
9:15	Katherine Monroe & Cartie Whitelaw	Life in the Age of the Coronavirus	Frederick Weil
9:30	Myrissa Eisworth	Comparative Analysis of Two Quantitative Methodologies for Calculating Rape Culture	Danielle Thomas
9:45	Mckenzie Hervey	Unveiling the Cycle: Navigating Challenges and Solutions in Period Equity	Sadie Wilks
10:00	Kayla Williams	The Implementation of a Telerehabilitation Program for African Americans with Aphasia: A Feasibility Study	Bijoyaa Mohapatra
10:15	BREAK		
10:45	Tanielma Costa & Neil Tepper	Callin' Baton Rouge: 311 Calls, Flooding, and Environmental Justice	Kevin Smiley
11:00	Amie Cemalovic	Hello, You're Eroding My Self-Efficacy: Emotions in REDSTICK311's Drainage and Flooding Service Requests	Kevin Smiley
11:15	Ryleigh Choplin	Climate Change Influences on Alpine Ice Caves in Tirol, Austria	Jill Trepanier
11:30	Aqsa Khan	An Analysis on Temperature and Precipitation in Southern Louisiana between 2020 and 2023	Jill Trepanier
11:45	Joseph Brooks	There's No Place like LaPlace: A Green Infrastructure Network for St. John the Baptist Parish	Nicholas Serrano
12:00	BREAK		
12:30	Joshua Bergeron & Myra Berthiaume N	Detection of Virulence Genes by PCR in Clinical Isolates of <i>Staphylococcus aureus</i> from a Tertiary Hospital in Southern Louisiana	Rajkumar Nathaniel
12:45	Rachael Coates	Identifying the Role of MAPK15 in Triple-Negative Breast Cancer	Todd Monroe
1:00	Iyana Oliviel	Determining the Cis-Regulatory Landscape Underlying Asymmetric Expression of Lws and rh2.1 Opsin Genes in Retina of the Four-Eyed Fish – Anableps anableps	Patricia Schneider
1:15	Mahad Ahmed	Recurrent Ethanol Treatment Does Not Produce a Cumulative Effect on Plasma Leptin Levels in Rats	David McDougal
1:30	Myra Berthiaume & Joshua Bergeron N	Characterization of Virulence Genes by PCR in <i>E.coli</i> Isolated from Urinary Tract Infections at a Tertiary Hospital in Southern Louisiana	Rajkumar Nathaniel
1:45	BREAK		
2:00	Xochitl Gonzalez	I'm Just a Girl in This Copepod World: Sex-Based Differences in <i>Tigriopus</i> californicus	Morgan Kelly
2:15	Elanor Fuller	Phylogeography of Psychotria viridis, a Primary Component of Ayahuasca	Laura Lagomarsino
2:30	Shelby Oliveaux	Evolution of Alkaloids and Cyclotides across Expanded Phylogeny of <i>Palicourea</i>	Laura Lagomarsino
2:45	Kenedi Lynch	Operation Brainstorm: Cerebellar Cytokine Expression in House Sparrows during Acute Malaria Infection	Christine Lattin

INTERNATIONAL, ROOM 303

9:00 a.m. - 3:15 p.m.

<u>Time</u>	<u>Student</u>	Title	<u>Mentor</u>
9:00	Madison Saucier	Confronting the History of LSU's Land: Arlington Plantation	Alia Kempton
9:15	Nathaniel Dela Pena	Creating a Historical Walking Tour of LSU's Campus	Zach Tompkins
9:30	Rhys Borders	Concrete Scars: Mapping Baton Rouge's Racial Landscape	Sarah Franzen
9:45	Annie Sheehan- Dean	Imprisoned for Self Defense: Criminalized Survivors in Louisiana	Catherine Jacquet
10:00	BREAK		
10:45	Emily Bohmer BU	High School Singers' Self-Assessment of Vocal Health Knowledge and Singing Difficulties	Kelly Hollingsworth
11:00	Ella Millet	Producing Panic: The Melodramatic Conventions of Moral Panics	John Fletcher
11:15	Sofia Alves	NEST: Pop-Up Services for People Experiencing Homelessness	Julie Elliott
11:30	Marvin Scott, Serita Abayilo, Isabelle English & Kauther Zeidan	Our Lady of the Lake Tau Behavioral Health Center Adolescent Unit Design	Julie Elliott
11:45	BREAK		
12:15	Christian Blanks SE	Innovative Tracking Devices for Assessing Crocodile Behavior in Costa Rica	Youngho Shin
12:30	JoAnne Huang	Single-Cell RNA-Seq Reveals Activation of Unique Gene Groups as a Consequence of Stem Cell-Parenchymal Cell Fusion	Philip Jung
12:45	Steven Seiden	Tapping .IPAs: An Automated Analysis of iPhone Applications Using Apple Silicon Macs	Ibrahim Baggili
1:00	Robert Dally	Laminar Film Condensation on a Vertical Plate with Condensation Kinetics	Harris Wong
1:15	Andrew Callender	Decarbonizing Concrete Using Louisiana Clays and Agricultural Waste: A Comparison between Ordinary Portland Cement (OPC), Limestone Calcined Clay (LC3), and Oyster Shell Calcined Clay (OC3)	Yen Fang Su
1:30	James Yu	Flow Field Characterization in a Liquid-Spray Swirl Combustor	Shyam Menon
1:45	BREAK		
2:15	Makenna Meisenbach s	The Effect of Different Music Genres Affecting Sports Performance and Emotion of Student Athletes within the Astrand Treadmill Test	Nicholas Mortensen
2:30	Rachel Wall	The Effects of 12 Weeks of Aerobic Exercise on Biomarkers of Neutrophil Function in Colorectal Cancer Survivors	Guillaume Spielmann
2:45	Virginia Bordelon	Addressing Disparities of the Food Environment to Combat Childhood Obesity: Preliminary Findings from an Intervention Study at Six Schools	Senlin Chen
3:00	Gracie Chen	Baseline Results and Formative Implementation Outcomes of the ProudMe Intervention	Senlin Chen

PANELS

THE ACADEMIC STUDY OF RELIGION AT LSU: A VARIETY OF APPROACHES

12:00 PM - 3:00 PM | Moderated by Dr. Kenny Smith | Vieux Carre, Room 325

Student	Title
James Beatty	The Little Cajun Saint: Veneration and Canonization of Charlene Richard
Emme Clark	Praise for Frodo Baggins and Condemnation for Harry Potter? Who Here Can Solve This Riddle for Us?
Marguerite Schwartz	Everyone Is a Change-Maker! How Charles Eisenstein, Mother Teresea, and Your Inner Self Can Teach Anyone How to Facilitate Positive Social Change
Thomas Hook	Maximal Worries about Minimum Wage at LSU: A Social Change Project to Raise Awareness
Ashton Dalton	Microtraumas and the Cultivation of a Superhuman Gen Z
Nicola Cates	The Metaphysics of Mysticism
Kayce Robinson	The Aesthetic Significance of Paranormal Experience

PURSUING CAREERS IN RESEARCH

3:30 - 4:30 PM | Moderated by Gabrielle Mellor | Capital Chamber, Room 329

<u>Area</u>	<u>Name</u>	Title	Employer
Academic	Dr. Jesse Allison	Associate Professor of Experimental Music & Digital Media – LSU School of Music Cultural Computing – LSU Center for Computation & Technology Associate Director of the LSU STEM Pathway in Digital Design & Emergent Media – LSU Cain Center	Louisiana State University
Industry	Dr. James Guenther	Chief Science Officer	Mariposa Technology
Industry	Dr. Lisa Kemp	Senior Manager, Global Health Economics and Reimbursement	Edwards Lifesciences
Medicine	Dr. Christopher Schneider	Medical Physicist, Dr. Charles M. Smith Faculty Research Scholar	Mary Bird Perkins Cancer Center
Academic	Dr. Paul Soto	Assistant Professor Department of Psychology	Louisiana State University; Pennington Biomedical Research Center
Government	Mr. Eric White	Engineer 6-DCL, Research & Planning Division	Coastal Protection and Restoration Authority

(CPRA) of Louisiana

RESEARCH AMBASSADORS

LSU Discover 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







KEYNOTE SPEAKER Dr. Margaret Reams

Join us at 5:00 p.m. in the Atchafalaya, Room 339 to hear Dr. Reams' keynote speech



Dr. Margaret Reams is the Joseph D. Martinez Professor of Environmental Sciences, and Associate Director for Community Engagement of the LSU Institute for Energy Innovation. She also serves as the leader of the Community Engagement Core and is a Co-Principal Investigator of the NIEHS-funded Superfund Research Program at Louisiana State University.

She studies a variety of policy issues related to environmental planning and policy, including community perception and response to environmental and ecological phenomena in Louisiana. with support from NIEHS, NSF, USDA and the Bureau of Ocean Energy Management (BOEM), she and Dr. Nina Lam developed an empirical social-ecological resilience index to

better predict the ability of communities to survive various environmental disturbances. The application of the resilience index to communities within Louisiana's Industrial Corridor allows for spatial and temporal comparisons among communities, and helps researchers identify key factors that may explain variation in both the long-term impacts of cumulative environmental exposures and the reactions of stakeholders. While at LSU, Dr. Reams has designed and implemented graduate courses dealing with environmental conflict resolution, environmental policy analysis, and program evaluation. She received the LSU Foundation Distinguished Faculty Teaching Award for superior graduate-level teaching and mentoring, having supervised over ninety MS theses on various issues of environmental policy and public attitudes. She has published articles in Risk Analysis, Environmental Management, Wetlands, Coastal Management, Marine Policy, Environment and Behavior, Social Science Quarterly, Forum for Applied Research and Public Policy, Journal of Environmental Systems, and Environmental Research Letters among others. Dr. Reams received her undergraduate degree from Huntingdon College, her M.A and Ph.D., both in Political Science from the University of Georgia.

SPECIAL THANKS

LSU Discover thanks all of the individuals and groups who contributed to the success of LSU Discover Day 2024. In particular, we thank our keynote speaker, Dr. Margaret Reams, and our faculty panel moderator, Gabrielle Mellor. Thanks to Carsyn Martel at the Student Union for venue coordination. We are also greatly appreciative of our volunteers, judges, the Research Ambassadors, and the LSU Discover staff for their assistance with the coordination of this event.

THANK YOU

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LSU Discover Day is also open to participants from other colleges. Thank you to the following colleges & schools for participating:

American University Baton Rouge Community College Baton Rouge Magnet High School Baylor University California State University - Fresno Longwood University Loyola University New Orleans McNeese State University Nicholls State University Rhodes College Saint Mary's College Siena Heights University Scotlandville Magnet High School Southeastern Louisiana University Southern University and A&M College Texas Christian University Trinity University The University of Central Florida The University of Central Florida The University of Louisiana - Lafayette The University of New Orleans The University of North Texas The University of Texas at Austin

MARC PROGRAM

LSU Discover is enormously grateful to the Maximizing Access to Research Careers (MARC) program for their generous financial contribution to Discover Day 2024.

The LSU MARC Program provides high-impact research experiences to a diverse pool of undergraduates and prepares them for entry into graduate programs in the biomedical and behavioral sciences. The LSU MARC Program offers research training, personal and career development, financial support, mentoring, networking opportunities and academic preparation for motivated students. They aim to produce highly skilled, competitive, and productive young scientists who will fill a national need, and enhance LSU student inclusion and diversity, retention and graduation rates, collaborative research, community engagement and outreach activities.

LSU MARC is supported by the National Institute of General Medical Sciences of the National Institutes of Health under award number T34GM136452.

Applications are accepted through late March.



To learn more about MARC, visit marc.lsu.edu

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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.

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