

LSU
Discover
Undergraduate Research



LSU's Undergraduate
Research & Creativity Symposium

APRIL 9, 2019

DISCOVER DAY 2019

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WELCOME TO LSU DISCOVER DAY 2019!

LSU Discover Day is a university-wide undergraduate symposium 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>
9:00 a.m. - 10:00 a.m.	Panel Discussion – Biomedical Research	Red River, Room 323
9:00 a.m. - 11:00 a.m.	Level 2 – Poster & Visual Display Presentations	Ballroom, Room 250
9:00 a.m. - 11:00 a.m.	Morning Session – Oral Presentations	Capital Chamber, Room 329 Feliciana, Room 208 Castilian, Room 304 Vieux Carré, Room 325
10:30 a.m. - 12:30 p.m.	Panel Discussion – Art History	Red River, Room 323
11:00 a.m. - 1:00 p.m.	Participant Lunch	Atchafalaya, Room 339
11:30 a.m. - 12:30 p.m.	Faculty Brown Bag Panel	Capital Chamber, Room 329
1:00 a.m. - 2:00 p.m.	Panel Discussion – Environmental and Natural Sciences	Red River, Room 323
1:00 a.m. - 3:00 p.m.	Level 1 – Poster & Visual Display Presentations	Ballroom, Room 250
1:00 a.m. - 3:30 p.m.	Afternoon Session – Oral Presentations & Performances/Readings	Capital Chamber, Room 329 Feliciana, Room 208 Castilian, Room 304 Vieux Carré, Room 325
3:00 a.m. - 5:00 p.m.	Juried Art Show & Reception	Magnolia, Room 301
5:00 a.m. - 6:30 p.m.	Keynote Speech & Awards Ceremony <i>Keynote Speaker: Dr. Neil Johannsen*</i>	Atchafalaya, Room 339

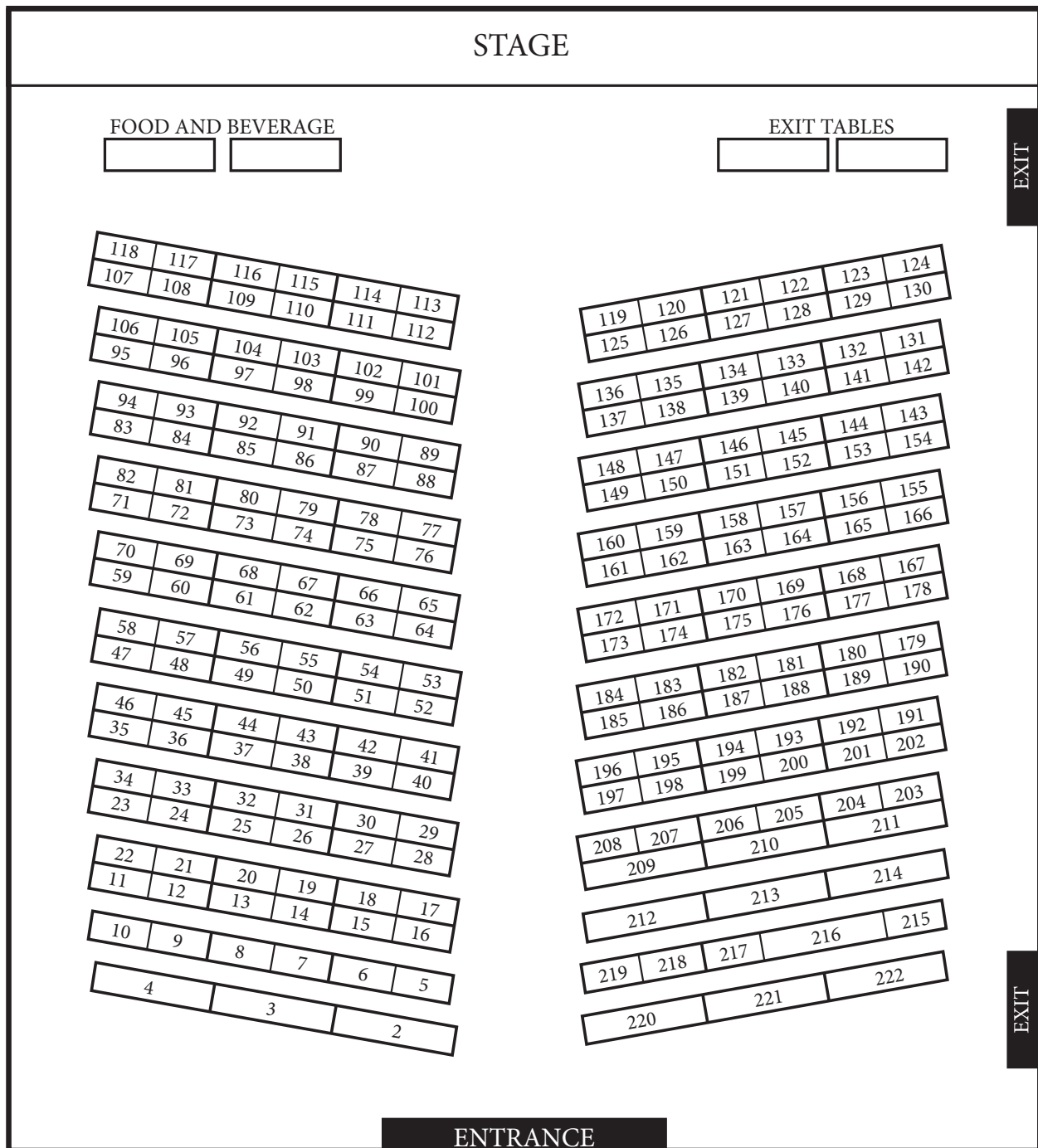
**Read more about our keynote speaker Dr. Neil M. Johannsen on page 23*

ABOUT LSU DISCOVER

LSU Discover, a program under the LSU Office of Academic Affairs, promotes and supports undergraduate research and creative opportunities to students from all disciplines at LSU. With a focus on information literacy, original ideas, research methods, research ethics, and communication, the LSU Discover program strives to provide a supportive environment where all undergraduate students can engage in mentored research and creative endeavors.

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

ROYAL COTILLION BALLROOM MAP POSTER & VISUAL DISPLAY PRESENTATIONS



POSTERS:

Science: #6-75
 Engineering: #76-118
 Coast and Environment: #119-128
 Agriculture: #129-147
 Veterinary Medicine: #148
 Business: #149-150
 Mass Communication: #151-152
 Human Sciences and Education: #153-166
 Humanities and Social Sciences: #167-202
 Art and Design: #203-208

VISUAL DISPLAYS:

Science: #2-5
 Art & Design: #209-211, #213-214
 Music and Dramatic Arts: #212
 Agriculture: #215-218
 Engineering: #219-222

POSTERS

Level 2: 9:00 - 11:00 a.m. | Level 1: 1:00 - 3:00 p.m. | Royal Cotillion Ballroom, Room 250

KEY

B | Baton Rouge Magnet High School
D | Dillard University
DC | Delgado Community College
L | Loyola University New Orleans
MS | Mississippi State University

N | Nicholls State University
SL | Southeastern Louisiana University
SU | Southern University and A&M College
T | The University of Texas at Austin
A | University of Alabama

UL | University of Louisiana at Lafayette
LM | University of Louisiana at Monroe
M | University of Mississippi
NO | University of New Orleans
SM | University of Southern Mississippi

AGRICULTURE

#	Student	Title	Mentor
129	Dennis Carriere	Leaving or Staying: Implications of Migration on Intergenerational Mobility in the United States	James Fannin
131	Joshua Cobar	Black Drum <i>Pogonias cromis</i> Shelf Life Comparing Four Packaging Methods	Evelyn Watts
130	Elizabeth Courville	Preventing Diet-induced Obesity Development with Anti-angiogenic Citrus Limonene	Jack Losso
140	Kathryn Davis	Population Structure and Genetic Variation in Seaside Sparrows <i>Ammospiza maritima</i> Using a Next-Generation Sequencing Approach	Sabrina Taylor
132	Trista Galivan	Unsafe Food Service Practices: The Food Safety Gap in Louisiana Restaurants	Wenqing Xu
133	Trista Galivan	The Quality and Microbial Load of Raw Milk in Louisiana	Wenqing Xu
146	Joseph LaHaye	Commuting Error: Traversing Thresholds to Improve Rural and Urban Area Definitions	James Fannin
147	Claire Lanclos	Development of Water Soluble Bacteriocins of Probiotic Bacteria as an Antimicrobial Agent	Subramaniam Sathivel
142	Chase Mathey	Recovery Potential of Degraded Coastal Prairie in Southwestern Louisiana	Brian Early
143	Emma Moore	Reversing Obesity in Obese Mice with Dietary Anti-Angiogenic Limonene	Jack Losso
141	Jordan Mouton	Collisions on Campus: Standardized Surveys to Assess the Risk of Bird-window Collisions at Louisiana State University	Phil Stouffer
136	An-Anthony Nguyen	Culturable Leaf and Husk Microbiome of Field-Grown Maize Infected with Mycotoxigenic and Biocontrol Strains of <i>Aspergillus flavus</i>	Subbaiah Chalivendra
145	Matthew Nguyen	Toxicity Assessment of Novel Diamide and Isoxazoline Insecticides to the Sand Fly, <i>Phlebotomus papatasi</i>	Daniel Swale
135	Alexandra Perez	Quantifying Allometric Parameters and Reproductive Output in the Eastern Oyster, <i>Crassostrea virginica</i>	Megan La Peyre
134	Emily Price	Recent Graduate Proficiency in the Natural Resource Field: A Survey of Educators and Employers	Kevin Ringelman
138	Keyla Pruet	Seasonal Parasitism Rates and Composition of Non-Native Wasps Attacking Roseau Cane Scale in Louisiana	Rodrigo Diaz
139	Ross Romero	U.S. Consumer Emotions and Effects of Flavor Modification and Benefit Information on Perceptions of Tortilla Chips Made with Insect Protein	Witoon Prinyawiwatkul
137	Caitlyn Smith	Detection of Immune Response for <i>S. javiana</i> DNA Vaccine	Richard Cooper
144	Madelyn Smith	Assessing Knowledge of Coastal Land Loss in Louisiana High School Graduates	Michael Kaller

POSTERS

ENGINEERING

#	Student	Title	Mentor
118	Alexandria Adams	Controlling the Biosynthesis of C-phycocyanin in <i>Plectonema</i> sp. UTEX 1541 under Nitrate Excess Conditions	Michael Benton
112	Hamed Al-ajmi, Amelia Sands, and Colin Hughes	Pleated Filter Media Technology	Laura Ikuma
116	Gloria Alvarado	Ultrasonic Assisted Self-Assembly of Polystyrene Nanospheres	Kevin McPeak
115	Dominique Angibeau	The 3D Scaffold Design of <i>De Novo</i> Anterior Cruciate Ligament Graft	Mandi Lopez
114	Caroline Bergeron	Utilizing 3D Printed Models for Craniofacial Reconstructive Surgery	Philip Brown
81	Alexis Booe	Biophysical Analysis of the Phototactic Response of <i>Chlamydomonas reinhardtii</i> Using a 3D-Printed Microfluidic Device	Adam Melvin
107	Joshua Campbell	Microfluidic Generation of Orthogonal Chemical Gradients to Study Cellular Decision Making During 3D Migration	Adam Melvin
99	Maryn Cavalier	Involvement of Stromal Age in Breast Cancer Endocrine Response	Elizabeth Martin
98	Morgan Donaldson	Photosynthetic Production of High-value Pigments in <i>Anabaena</i> sp. UTEX 2576 from Wastewater Pollutants	Mike Benton
97	Sarah Dunn	Effect of Community Paramedic Demographics on Patient and Program Perception	Laura Ikuma
105	Bryce Ferrara	Fluorescence Spectroscopy	Theda Daniels-Race
96	Nathan Holley	Surface Modified Zein Microporous Structures from Polyaphron Template	Bhuvnesh Bharti
95	Nicholas Hudspeth	Analysis of Engineers Performance Through the Review Committee in the Pursuit of Medical School Admittance	Nicholas Totaro
94	Nathan Istre	Engineering, A Path to Medical School	Nicholas Totaro
76	Casie Jones, Emily Gardiner, and Dantonio Cooksey	McMains Children's Developmental Center: Outcome Metrics	Laura Ikuma
110	Charles Kearney	Modeling and Analyzing Hand Motion and Force Data for Activities of Daily Living	Jin-Woo Choi
103	Layah Khalif	Identification of Breast Cancer Subtype Specific Response to Extracellular Matrix	Elizabeth Martin
92	Timothy King	Evaluation of Stromal Remodeling Following Chemotherapy in Adipose Derived Stem Cells	Elizabeth Martin
91	Meggie Lam	Estrogen Regulation of Collagen in Estrogen Receptor Positive Breast Cancer	Elizabeth Martin
117	Joseph Lane	CeMnO ₃ and LaMnO ₃ as SCR Catalysts	James Dorman
93	Jarod Larriviere	Optimizing Synthesis Methods For Spatially-Controlled Ni ²⁺ Dopant Distribution for Metal Oxide Crystal Structures	James Dorman
113	Nicholas Lasher, Jacob Lejeune, Andrey Fateev, and Sean McCrea	Are You Safely Flowing Your Wells?	Ipsita Gupta
90	Haley Lassiter	Development of a Protocol to Generate 3D Spheroids Using PEGDA Hydrogels and a Microfluidic Device	Adam Melvin
87	Christopher Mai	Instantaneous Screw Invariants for Identifying Skeletal Motions in Different Tasks	Michael Murphy

POSTERS

ENGINEERING

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
86	Emily McConnell	LSU's Fast Path Program: Accelerating Engineers into Medicine	Nicholas Totaro
85	Emmaline Miller	Fabrication of a Novel Microfluidic Device to Simulate the In Vivo Fluid Shear Stress of Extravasation	Adam Melvin
109	Jacob Miller	Endoscopic Near-Infrared Dental Imaging with Indocyanine Green: A Pilot Study	Jian Xu
84	Amy Morgan	Three Dimensional Cancer Cell Migration to Durotactic Cues in a Microfluidic Device	Adam Melvin
83	Shivani Pandya	Optimization of Gasification Parameters	Dorin Boldor
78	Gabriel Pedigo	Coupling Mechanical and Hydrological Processes in Gas Hydrate Bearing Sediments	Ipsita Gupta
79	Jacob Pettigrew	Direct Measurement of Deubiquitinating Enzyme Activity in Intact Cells Using a Protease-resistant, Cell-permeable, Peptide-based Reporter	Adam Melvin
101	Raymond Poche	Investigating the Effects of Significant Wind Loads on Self-Ballasting Solar Panel Arrays on a Geometrically Complex Low Slope Roof	Aly-Mousaad Aly
108	Amrit Poudel ^M	Live-monitoring Sexual Harassment Reports in Social Networks	Naeemul Hassan
106	Brianna Robertson	Peltier-driven Temperature Control in Fluorescent Measurement Platform	Jin-Woo Choi
82	Kelly Robertson	Observation of Oil-film Formation in Gas-Assisted Gravity Drainage [GAGD] Using a Microfluidic Device.	Adam Melvin
77	Fischer Robinson, Madison Ruston, and Adriana Deras	Design for the Soul of the Community: Using Community-based Design Principles	Marybeth Lima
80	Sven Saemundsson	Use of CRISPR/Cpf1 for Genetic Modification of Cyanobacteria	Michael Benton
88	Olivia Sanchez	A Microfluidic Approach to Quantify Increasingly Heterogenous Alkaline Phosphatase Activity in <i>C. reinhardtii</i> Under Various Exogeneous Phosphorus Levels	Adam Melvin
104	Noah Smith	Fabrication and Characterization of a Two-Layer Microfluidic Gradient Generator Using Thiol-Acrylate Polymers	Adam Melvin
102	Brandon Tramontana	The Effects of Childhood Visual Impairments on Playground Play	Marybeth Lima
89	J. Hayden Waldvogel	Effect of Polymeric Lignin-based Nanoparticles on Plant Health	Cristina Sabliov
111	Alice Xie	Enhancing the Cellular Growth and Carotenoid Production of <i>Synechococcus elongatus</i> UTEX 2973 through Flocculation with Biodegradable Lignin Nanoparticles	Michael Benton
100	Jennafer Zimmerman and Rene Petit	Appointment Scheduling Effectiveness at Baton Rouge General Physicians Call Center	Laura Ikuma

MASS COMMUNICATION

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
151	Lily Fontenot	The Political Preferences of College Majors at Louisiana State University	Robert Mann
152	Loreal Johnson	Sharing More Than Expected	Erin Coyle

POSTERS

HUMAN SCIENCES & EDUCATION

#	Student	Title	Mentor
154	Abby Caffey	Possible Cognitive Deficits in Young Adults with a History of a Concussion	Marc Dalecki
155	Beatriz Fernandes-Coelho	Changes in Physical Activity and Screen-time Policies in Early Care and Education Centers and Effects on Preschoolers' Behaviors	Amanda Staiano
160	Emilee Hickman ^{SL} and Callie Lambert	Exergaming vs. Real Life Gaming: Differences in Heart Rate, Movement, and Enjoyment	Holly Kihm
158	Emily Jones	Greater Visual Attentional Demands During Saccadic Eye Movements Do Not Improve Postural Sway	Jan Hondzinski
157	Savannah Knighton	Alpha-Gal Allergy After Chigger Bite	Amanda Benson
159	Callie Lambert ^{SL} and Emilee Hickman	Effects of Social Support and Music on Exercise Adherence and Enjoyment in Children	Holly Kihm
156	Mallik Matthews	Investigating the Concurrent and Development Validity of Two Fundamental Motor Skill Assessments in Preschool Children	E. Kipling Webster
161	Meaghan Myrick ^{SL} and Olivia Bourgeois	The Impact of Child Life Services in the Pediatric Healthcare Setting: An Exploratory Study	Holly Kihm
163	Hana O'Neill	Using Positive Behavior Support to Increase Self-Regulation Skills In a Preschool-Aged Child	Cynthia DiCarlo
153	Brandon Phillips and William Arata	Experienced a Concussion in High School? Prolonged Cognitive-Motor Integration Deficits in Young Adult Non-athletes with Concussion History	Marc Dalecki
162	Taylor Pitcock	Management of Migraines Caused by Occipital Neuralgia	Maria Berthiaume
164	Madison Rohm	Increasing Peer Engagement through Coaching of Pre-school Aged Children	Cynthia DiCarlo
166	Gabrielle Schnebelen	Increasing Letter and Phoneme Recognition in Early Childhood	Cynthia DiCarlo
165	Aaylia Smith	A Qualitative Study of Stress and Coping among Undergraduate Students at Louisiana State University	Cassandra Chaney



POSTERS

HUMANITIES & SOCIAL SCIENCES

#	Student	Title	Mentor
170	Rebecca Barnett	Melville's America	Tom Barnett
183	Connor Burruss	Gentrification and Crime in the Crescent City	Michael Barton
173	Angelina Cantelli	Intersectional Traits that Impact the Choice of Multiracial Identity	Sarah Becker
181	Dominique Carr	The Effect of Time Pressure on Cue Utilization in Academic Selection Decisions	Don Zhang
188	Kristen Chedville	The Relationship between Within-Person Variability and Depression in Older Adults	Matthew Calamia
180	Kevin Coleman [Ⓟ]	What's Stopping Us: Teachers' Perception on Obstacles Facing African-American Males and the Effects on Academics	Ashraf Esmail
176	Gabrielle Danna, Sidney Thomas, and Michael Bond	The Dark and Light Sides of Boredom in the Workplace	Don Zhang
179	Jha' Ceri Elmore [Ⓟ]	The Effects of Human Development in Intimate Commitments	Ashraf Esmail
194	Maria Enger	The Impact of Hatha Yoga on Anxiety Sensitivity Among Smokers Undergoing a Quit Attempt	Julie Buckner
189	Brooke Fourcade and Emily Neck	English Articulation Development in Spanish-English Bilingual Kindergarteners	Todd Gibson
201	Raleigh Goodwin	Communicating the Coastal Crisis: The Influence of Priming, Nudging, and Information Provision on Pro-Environmental Behavior	Jason Harman
172	Jackson Cole Green	Problem-Focused Personalized Feedback Intervention Reduces Cannabis-Related Problems Among Cannabis Users with High Problem Distress	Julie Buckner
171	Martha Hall	Blue Light Has No Effect on Frustration and Anger	Steven Greening
169	Jordan Hamilton [Ⓟ]	Mass Incarceration: The Trouble Maker	Ashraf Esmail
185	Luke Hernandez [Ⓜ]	Queer Identity and Community Making in Online Video Games	Curran Nault
175	Dwayne Hinton	The Role of Forest Management in the Classic Maya Collapse	Heather McKillop
186	Michelle Hogan	Diadochokinetic Changes in Patients with Serious Mental Illnesses	Alex Cohen
199	Kyreal Jackson	An Update on the Validation of a Computerized Measure of Cognition and Quality of Life in a Sample of Cognitively Healthy Older Adults	Matthew Calamia
191	Erin Johnson [Ⓜ]	State and Regional Comparisons of Breastfeeding Policies and Rates: A National Study	John Green
195	Urselia Johnson-Leblanc [Ⓟ]	The Effects of Paternal Incarceration on the Middle Class Family	Ashraf Esmail
193	Elizabeth Joseph	The Distinctiveness of Risk-Taking from the Big Five Personality and its Narrow Facets	Don Zhang
192	Paulette Kourouma	The Effect of Pauses on Successful Article and Noun Association with Adult Second Language Learners	Janet McDonald
200	Mikyala Moore [Ⓟ]	Racially Fueled Perception of Medical Attention	Ashraf Esmail
197	Shea Moreau, Maria Ciaccio, and Lilli Patton	Childhood Speech and Language Screening: Fluctuation of Screening Outcomes by Year	Jana Oetting
190	Emily Neck and Brooke Fourcade	The Relationship Between English Vocabulary and English Articulation in Spanish-English Bilingual Kindergarteners	Todd Gibson
184	Quyên Nguyen	Does Disaster Stress Impair Memory for Pictures and Words?	Katie Cherry

POSTERS

HUMANITIES & SOCIAL SCIENCE

#	Student	Title	Mentor
198	Serena Nguyen	Long-Term Effects of the Chronic Administration of Risperidone on Adolescent Mice	Paul Soto
182	Brady Parker	Park Access across Income Levels in Louisiana	Stephanie Broyles
167	Dawn Penn ^{PhD}	The Effectiveness Alcoholics Anonymous Has On African-Americans Who Do Not Regularly Attend	Ashraf Esmail
196	Sara Pohlman, Kara Aguillard, and Jane Gogreve	The Effects of Practice on Speech Production	Todd Gibson
187	Fludd Sheriel ^{PhD}	Domestic Violence: A Child's Mental Health	Ashraf Esmail
174	Hailey Teachout	What Motivates People to Join the Cajun Navy and Volunteer for Disaster Rescue Efforts?	Michelle Meyer
177	Allison Thomas ^{PhD}	Potential Power-Conflict in the Workplace or at Home	Ashraf Esmail
178	Torrance Thomas	Exploring Exploration: Decisions From Experience of Gambles with Positive and Negative Prospects	Megan Papesh
202	Katherine Vukovics	Does Musical Training Protect Against Auditory Distractions	Emily Elliott
168	Elinor Weber	A Systematic Review of Ultrasound Use in Speech-Language Pathology	Todd Gibson

SCIENCE

#	Student	Title	Mentor
57	Adam Bao	The Effect of Histone Mutation on Genomic DNA Mutagenesis	Shisheng Li
67	Caitlin Billiot	Characterization of a Conserved Membrane Protein Required for Colistin Resistance in <i>K. pneumoniae</i>	William Doerrler
62	Jeffery Brothers	Examining Martian Boulder Clusters for Insight into Martian Weathering	Suniti Karunatillake
75	Emily Brown	The Herbicide Glyphosate Disrupts Manganese Homeostasis in Green Algae	David Vinyard
69	Jonathan Bruna	Encapsulation and Assessment of Electrochemical Activity of a Manganese Catalyst Inside a Tetrahedral Aluminum-based Molecular Nano-capsule	Noémie Elgrishi
65	M. Ali Brunson	Assessment of the Mutagenicity of Cinnamon and Butter-Flavored Electronic-Cigarette Aerosol Extracts	Alexandra Noël
66	Cy Bryson	Brain Activation Patterns Associated with Reception of Visual-acoustic Courtship Signals in an African Cichlid Fish	Karen Maruska
51	Sydney Canaday ^{MS}	Magnetized Douglas Fir Biochar as an Adsorbent for Pharmaceuticals in Contaminated Water	Todd Mlsna
61	Isabella Canova	The Outcomes of Variations of Eruptions in the Elysium Region	Suniti Karunatillake
49	Marcus Cepeda	Implications of Possible Super-Volcanoes in the Northwestern Arabia Terra Region of Mars	Suniti Karunatillake
37	Desiree Ciccarelli	Comparison of <i>Drosophila</i> Alcohol Dehydrogenase and <i>Saccharomyces</i> Alcohol Dehydrogenase Enzyme Kinetics Via Oxidation and Reduction Reactions of Various Substrates	Johnna Roose
46	Ashley Clement	The Effects of Induced Boron Stress on <i>Arabidopsis thaliana</i> and <i>Schrenkiella parvula</i>	Maheshi Dassanayake
52	Sarah Cohen	The Development of a High Throughput Screening Assay for Acetyl-CoA Carboxylase Using 1,3,6,8-Tetrahydroxynaphthalene Synthase	Grover Waldrop

POSTERS

SCIENCE

#	Student	Title	Mentor
31	Henry Crull	Dawson Creek Microbiome	Gary King
42	Omead Darvish	Interactions of Hydrophobically Modified Polypeptoids (HMPs) with a Proteoliposome System	David Vinyard
35	Will delaBretonne	Investigating the Role of MftR in <i>Burkholderia thailandensis</i>	Anne Grove
63	Jessica Elliott	Avery Island Tabasco Salt Analysis; Patterns for Bacteria	Gary King
38	Nabil Essajee	FGF21 Does Not Regulate Hepatic Peroxisomal Adaptations in Response to Induced Energy Deprivation	Robert Noland
34	Jonalyn Fair ^{SU}	The Study of Electrochemical Durability of Carbon-Supported Pt Catalysts For Fuel Cell Applications	Diola Bagayoko
32	Angela Fang	De Novo Canine Cranial Cruciate Ligament Generation with Collagen Scaffold and Canine Infrapatellar Adipose Tissue-Derived Multipotent Stromal Cells	Mandi Lopez
30	Annaliesa Fanguy	The Role of PrtaA in the Assembly of Photosystem II	David Vinyard
36	Layne Freeman	The First Mitogenomic Phylogeny of the Neotropical Cichlids of the Tribe Heroini (Cichlidae: Teleostei)	Prosanta Chakrabarty
59	Rohin Gilman	Lie-Trotter Type Product Formulas for Nonlinear Differential Equations	Frank Neubrander
23	Rachel Gnieski	Archean Metamorphosed Ultramafic Rocks of the Beartooth Mountains MT/WY: Evidence for Multiple Thermal and Fluid Overprints	Darrell Henry
24	Jackson Cade Green	Sexually Dimorphic Distribution of Oxytocin Receptor Expressing Cells in Mouse Retina	Ryoichi Teruyama
26	Hayden Guidry	Exploring Possible Lifespan-Extending Effects of Botanical Extracts	Adam Bohnert
25	Megan Guidry	Diversity of the <i>Crassostrea virginica</i> Microbiome across Various Salinity Regimes and Tissue Samples in South Louisiana's Coastal Zone	Morgan Kelly
47	Stephen Guillory	Analysis of Baton Rouge Area Lake Microbiomes	Gary King
7	Andrew Harper ^L	Urban Park Management Effects on Odonate Communities	Aimée Thomas
8	Logan Hart	Asymptotic Properties of Nonlinear Flows in Terms of Their Linear Lie Generators	Frank Neubrander
16	Deja Hebert	Synthesis and Nanopatterning of Core-shell Nanoparticles Encapsulated with Porphyrins	Jayne Garno
43	Valencia Henderson	Complete Southern Cavefish (<i>Typhlichthys subterraneus</i>) and Swampfish (<i>Chologaster cornuta</i>) Mitochondrial Genomes	Prosanta Chakrabarty
15	Ryan Hoffman	Hypoxia-Induced Oxidative Stress in Fundulid Killifish	Fernando Galvez
14	Jay Iyer ^B	Developing a Technique to Isolate a Collection of Related Genes Based on Gene Function	John Battista
6	Samantha Jindia	Mutagenetic Effects of Flavored JUUL Aerosol Extracts Using the Ames Test	Alexandra Noël
29	Ashunte Jones	Biodiversity in the LSU Lakes	Gary King
10	Noel Joya ^{DC} and Nichelle Cox	Dental-Microbes: Risk factors for Cardiovascular Complications	Habib Ansari
13	Matthew Junot	The Effect of the Protein CLU-1 on Mitochondrial Morphology and Quality Control in <i>Caenorhabditis elegans</i>	Adam Bohnert
12	Lebogang Kgoadi	Spectrophotometric and Electrochemical Characterization of Potassium Chromate in Citric Acid and Sodium Citrate	Noemie Elgrishi
11	Lukas Kim	Using Neural Networks to Model Water Clusters with Acidic Defects	Revati Kumar
17	Rebecca Krueger	An Investigation of Lysosome Tubulation in the Nematode <i>Caenorhabditis elegans</i>	Alyssa Johnson

POSTERS

SCIENCE

#	Student	Title	Mentor
64	Lillian LaPlace and Jessica Elliott	Extremely Halophilic Archaeal Communities in Salt Crusts Atop Tabasco Fermentation Barrels	Gary King
48	Mike Le	Diapause Termination and Hatching of <i>Artemia franciscana</i> : Impacts on Expression of a Late Embryogenesis Abundant Protein	Steven Hand
44	Brianna LeBlanc and Daniel Ruppert	Carbon Monoxide Uptake of Gastrointestinal Anaerobes in Equine Specimens	Gary King
53	Spencer Lemoine	Localization and Characterization of Novel Putative HCO ₃ ⁻ Transporters 'Bestrophins' in <i>Chlamydomonas reinhardtii</i>	James Moroney
70	Alyssa Lobello	Spatial Regulation of Apical Constriction in <i>Drosophila</i> Salivary Gland Invagination	SeYeon Chung
71	Anna Lucchesi	An Analysis of Bacterial Communities Associated with Seawater, Sediment and Coral Colonies Near Hydrothermal Vents in Bahía Concepción	Michael Hellberg
60	Laurie Lyon	Genetic Screen for Second Site Suppressor Mutants of Gene Silencing in <i>Saccharomyces cerevisiae</i>	David Donze
68	Mark Maier	Gonadotropin-Releasing Hormone Receptors in a Sensory Processing Region of the Midbrain Change with Female Reproductive State in a Cichlid Fish	Karen Maruska
55	Eric Martinez	A Characterization of Louisiana State University's Lake Microbiome	Gary King
50	Madison McInnis	Habitat Influences on the Morphological Diversity of Sparoid Fishes	Prosanta Chakrabarty
56	Paul Mitchell III	Discrimination and Identification of Cancer Related miRs by Pattern Recognition of Kinetic Electrical Signals	Fereshteh Emami
45	Oleksandr Molchanov	Nuclear Modeling from Machine Learning	Kristina Launey
58	Julia Nauman	Molecular Dynamics Simulation Studies of the Adsorption and Transport of Dye Molecules at Biological Interfaces	Revati Kumar
39	Hannah Paradis	Journey to the Center of Mars Through Central Peaks	Suniti Karunatilake
41	Dilan Patin, Ben Carbon, and Jeffrey Lemoine	Enzymatic Analysis and Urea-induced Monomerization of <i>Drosophila melanogaster</i> Alcohol Dehydrogenase	Johnna Roose
27	Jarrod Paul	Triphosgene and DMAP as Mild Reagents for Chemoselective Dehydration of Tertiary Alcohols	Rendy Kartika
28	Madison Peters	Data Science in Biomedical Engineering: miRNA Determination at Trace Levels	Fereshteh Emami Piri
21	Melody Salmanian	The Effect of Conserved Cysteine Residues on Iron-Sulfur Cluster Presence in Proteins from <i>Methanococcus maripaludis</i>	David Vinyard
22	Kayla Schwartzenburg	Characterizing the Subcellular Localization, Activity, and Physiological Properties of α -Carbonic Anhydrases in <i>Arabidopsis thaliana</i>	James V. Moroney
33	Jacob Seichshnaydre	Alcohol Dehydrogenase Inhibition by AMP, ADP and NADH	Johnna Roose
19	Mykola Sereda	Accelerating Computation of Electronic Absorption Spectra in Large Molecules	Kenneth Lopata
18	Taylor Sigur	Synthesis of 1,2-cis-Glycoside through Alpha-Selective Glycosylation	Justin Ragains
20	Kristin Sobie	Synthesis of Novel Chlorine Containing Heterocycles	Rendy Kartika

POSTERS

SCIENCE

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
40	Lana Thaljehe and Jane Ainsley Rothschild	Hinge Region in DNA Packaging Terminase pUL15 of Herpes Simplex Virus: A Potential Allosteric Target for Antiviral Drugs	Michal Brylinski
54	Sadie Thompson and Tabitha Kearns	Metagenetic Characterization of the Resident Uterine During Estrus and Non-Estrus Phases	Gary King
74	Courtney Toussel	A Modular Synthesis of Tetrahydroindoles and Tetrahydrocyclopenta[b] pyrroles via Silyloxyallyl Cations	Rendy Kartika
73	Dzmitry Vaido	Using Bose-Einstein Condensate to Simulate Expanding Universe	Daniel Sheehy
72	Xinyue Yu	Crack Propagation in Rock	Blaise Bourdin

ART & DESIGN

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
208	Caroline Anderson	The Reflection Center: An Overdose Prevention Site	Phillip Tebbutt
207	Brianna Beall and Jiwon Kim	Northlake Behavioral Health	Andrew Baque
206	Nancy Beteta	Coastal Motions	Kelly Green
205	Gabrielle Guidry and Madison Harrison	Chrysalis Ambulatory Surgery Center	Julie Elliot
204	Hannah Hixson and Kelsey Ralph	Whitewater Ambulatory Surgery Center	Julie Elliot
203	Phoenix Montague and Heather McGraw	Sana Ambulatory Surgical Center	Julie Elliot

COAST & ENVIRONMENT

#	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
124	Grayton Bruno	How Strong are Louisiana Marshes? Relating Soil and Vegetation Characteristics to Marsh Strength and Erosion	Giulio Mariotti
123	Devin Comba	Fresher, Warmer Water and its Implications for the Ecology of the Eastern Oyster, <i>Crassostrea virginica</i>	Morgan Kelly
126	Noel Dudeck	Waves, Mixing, and Resuspension in an Urban Subtropical Lake: Restoration Implications	Giulio Mariotti
121	Ella Hall ^L	Effect of Urban Park Management on Aquatic Macroinvertebrate Communities	Aimée Thomas
122	Shannon Hester ^L	Impact of Urban Park Management on Ground Dwelling Spider Communities	Aimée Thomas
119	Maggie Knight	Analysis of Photodegradation of Benzobicyclon Hydrolysate Using Various Ions in Seawater	Laura Basirico
127	Nadia Romero	Evaluating Mangrove Wetland Productivity as Ecosystem Service under Climate Change in Coastal Louisiana	Victor Rivera-Monroy
128	Nadia Romero	Tracking the Flux of Macroscopic Plastic Debris Using Drones	Mark Benfield
125	Roya Shalchi	Evaluating the Presence of Microplastics in Eastern Oysters	Mark Benfield
120	Joseph Winston	Organic Matter Decomposition in Created and Natural Brackish Marshes in Coastal Louisiana	Michael Polito

POSTERS

VETERINARY MEDICINE

<u>#</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
148	Alyssa Sharbaugh	Three-Dimensional Motion of Equine Hoof Components During Axial Loading and Unloading	Mandi Lopez

BUSINESS

<u>#</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
150	Finn Bicknell	Dynamic Asset Allocation Strategies Across Economic And Volatility Regimes	Kurtay Ogunc
149	Abimbola Ogundare	Uncovering the Roots of the Black-White Wealth Gap: The Freedman's Bank Crash	Daniel Keniston

VISUAL DISPLAYS

Level 2: 9:00 - 11:00 a.m. | Level 1: 1:00 - 3:00 p.m. | Ballroom, Room 250

<u>#</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
217	Charis Castello	Experimenting with Form and Colour	Donna Sapp
214	Rainey Charbonnet and Bryan Nash	Blue Ridge Surgery Center	Julie Elliot
209	Emily Chenier	Healthcare Design	Julie Elliot
3	Evan Doré	Reproducibility of the Recursive Segmentation Technique for Creating 3D Models of Thin Connective Tissue Structures from MRI Data: The Myosepta of Lampreys (Agnatha) as an Example	Dominique Homberger
222	Christian Fontenot	A Framework for Simulating and Visualizing the Behavior of Autonomous Robot Models	Ramachandran Vaidyanathan
213	Lindsey Henriques	Monsters Be Here	Courtney Barr
210	Lauren Kinchen	Healthcare Design	Julie Elliott
221	Drake Lambert	Peerra - Powering Peer Connections	Feng Chen
4	Jeffrey Lemoine	Voronoi Representation of Protein Binding Sites for Deep Learning	Michal Brylinski
219	Erika Lewis	3D-Printed Culture Plate Insert with Agarose Barrier for the Evaluation of Stem-Cancer Cell Paracrine Signaling	Elizabeth Martin
5	Stephen Lopez	Understanding How a Human Short Sleep Mutation Offsets Negative Effects of Sleep Deprivation	Alyssa Johnson
218	Camille Marcel	Fooling the Senses	Donna Sapp
2	Elise McCullison	Global Earthquakes Recorded in Louisiana with LSU and LIGO Raspberry Shakes	Patricia Persaud
212	Rachel Omar	Bipolar Identity	Tara Houston
220	Alejandro Rubiano	Fabricating a 3-D Printed Force Sensor Based on Carbon Nanotubes	Jin-Woo Choi
216	Josef Schuster and Ashley Wall	Effect of UV Sterilization on <i>Salmonella spp.</i> in Water Containing Red-Eared Sliders (<i>Trachemys scripta elegans</i>)	Charles Lutz and Curtis Colson
211	Jamie Wilson	Healthcare Design	Julie Elliott
215	Jeremy Zuccaro	Development of a Behavioral Tracking System for Termite Social Interactions	Qian Sun

JURIED STUDENT ART SHOW

3:00 - 5:00 p.m. | Magnolia, Room 301

<u>Student</u>	<u>Title</u>	<u>Media</u>	<u>Mentor</u>
Raven Bourgeois ^{UL}	The Connection Between Spirit and the Process of Art Making	Acrylic Paint	Cyndy Giachetti
Caleb Bourque	A Home Desensitized	Photography	Johanna Warwick
Amanda Cambre	Stairs to the Sun	Photography	Theodore Bariotas
Ryan Carreca	Flowers Colors	Photography	Johanna Warwick
Alexander Dang	The Beauty of Japan	Photography	Khue Le
Brynn Finney	Family Tree	Leaves, Wood, Glass	Kristine Thompson
Lanier Fussell	Angrophobia	Acrylic Paint	Jacqueline Parker
Brennan Gravois ^N	Self Portraits	Silver Gelatin Print	Deborah Lillie
Emily Loeb	The True Price of Victory	Photography, Photoshop	
Arden McMillin	Home and History	Photography	Kristine Thompson
Andrea Miller	Céilí Dance	Photography	Johanna Warwick
Meagan Moore	Tiny Worlds	Bacteria, Agarose Gel, Petri Dishes	Mary Miller
Chayse Sampy	Black Men in America	Prisma Pencil	Frederick Ortner
Amanda Turner ^{SU}	Chelsea	Photography	Valery Pollar
Chloe Vitrano	For, Jake	Photography	Kristine Thompson



PERFORMANCES AND READINGS

1:00 - 2:30 p.m. | Vieux Carré, Room 325

<u>Time</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
1:00	Morenike Erinkitola	Fractured Translations	Angeletta Gourdine
1:15	Tiffani Gaines ^{LM}	What You Should Have Said	Will Rogers
1:30	Henry Goldkamp ^{NO}	Selections from Bad Beach	Carolyn Hembree
1:45	Jozell Green	Array of Deflections	Rhadell Williams
2:00	Haleigh Jones	Monologue from "Gruesome Playground Injuries" by Rajiv Joseph	Andrea Morales
2:15	Sevan Marshall ^{LM}	Exiled	Will Rogers
2:30	Benjamin Rhodes ^{LM}	Long Night's Journey Into Day	Will Rogers

ORAL PRESENTATIONS

VIEUX CARRÉ, ROOM 325

Morning Session

<u>Time</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
9:00	Olivia Russell	Constructing Early Medieval Identities: Women's Fashion and Adornment in Anglo-Saxon England	Maribel Dietz
9:15	Kristi Lacour	Word-Final /-r/ Articulation in Colombian Caribbean Spanish	Rafael Orozco
9:30	Lauren Vidrine	A Syntactic Analysis of Disjunctive Pronouns in Cajun English	Greg Johnson
9:45	Justin Lightsey	The Evolution of the Expression of Futurity in Spanish	Rafael Orozco
10:00	Eric Forbes	The Louisiana Department of Education's Innovative Assessment Pilot and it's Future Implications on Language Pedagogy	Susan Weinstein
10:15	Kris Plunkett	Contextualizing the Monument Debate: A Catalogue of Civil War Monuments	Gaines Foster
10:30	Hannah Keller	KLSU's Place in the History of College Radio	Brett Boutwell
10:45	Jeremiah Turner	The Diary of Anne Frank	Shannon O'Neill

Afternoon Session

<u>Time</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
2:45	Salimata Fall	The Gray Area: The Unconventional Dynamics of Black/White Interracial Relationship	Kerri Tobin

ORAL PRESENTATIONS

CASTILIAN, ROOM 304

Morning Session

<u>Time</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
9:00	Anna West	2017-2018 Louisiana Game Harvest Survey Methodology Evaluation	Lucien Laborde
9:15	Alexander Hildreth	Willingness to Pay to Support Non-Honey Bee Pollinator Conservation in Louisiana	Jerrod Penn
9:30	Marissa Bosley	Perceptions of Income Inequality and Political Participation	Christopher Kenny
9:45	Cayla Royster ^{NO}	Western Perception versus Filipino Perception on Politics Under Duterte	Juana Ibanez
10:00	Victoria Rapp ^L	A Process Evaluation of the Swift and Certain Probation Program in Jefferson Parish, Louisiana	Kelly Frailing
10:15	Aundre Wesley ^T	Transcription Systems Derived from Motion Capture Data	Liza Shapiro
10:30	Niels Dickson	Remembering and Rejecting: Not Just Two Sides of the Same Coin?	Megan Papesh
10:45	Madeline Fussell	Circulating Photography and Second Line Parade Fashion on Instagram	Helen Regis

Afternoon Session

<u>Time</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
1:00	Grayce Mores	Optimizing the <i>Alu</i> Detection Program PolyDetect	Mark Batzer
1:15	Andrew Osborne	Transitional Granulite-Facies Mafic Xenoliths In The 2.8 Ga Trondjemite-Tonalite-Grndiorite [Ttg] Gneisses Of The Eastern Beartooth Mountains, Mt/Wy: Evidence For Variable Fluid Interactions	Darrell Henry
1:30	Ezzeddine Elmir ^T	Discovering Novel Inhibitors for D-alanine: D-alanine Ligase of <i>Listeria monocytogenes</i> Using Virtual Drug Screening	Josh Beckham
1:45	Laura Moldovan	Ocular Biodistribution of PLGA Nanoparticles After Topical Application	Cristina Sabliov
2:00	Makenzie Richard ^{SU}	Self-Closure of Fractured Surfaces of a Composite Material During the Healing Process	Hasan Suslu
2:15	Zoe Fokakis ^{MS}	Classical Conditioning of Electroconvulsive Seizures as a Model of Psychogenic Seizures	Farah Lubin
2:30	Emaya Moss	The Allelic Expression of Oxytocin Receptors [OXTR]	Ryoichi Teruyama
2:45	Marie Neubrandner ^A	Tensor Representation of High Dimensional Data with Application to Chemical Kinetics	Roger Sidje
3:00	Meagan Moore	3D-Printing the First Whole-Body Patient-Specific Phantom for Out-of-Field Dosimetry in Photon, Proton, and Neutron Therapies	Wayne Newhauser

ORAL PRESENTATIONS

FELICIANA, ROOM 208

Morning Session

<u>Time</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
9:00	Madison Smith ^{LM}	Black Women in Literature	Will Rogers
9:15	Sloan Garner ^M	3 Forms of Death in 2 David Rabe Plays	Alexandra Valint
9:30	Jason Luquette	<i>The Life of Symeon the Holy Fool: A Cynical Comedy?</i>	Maribel Dietz
9:45	Charity Ringel	'Doubtfully, but Seriously': Storytelling and the Affective Link in Chesnutt's <i>The Conjure Woman</i>	Michael Bibler
10:00	Gina Nedwick ^D	An Examination of Charlotte Perkins Gilman's <i>The Yellow Wallpaper</i> Through the Perspective of Racism and Xenophobia	Steven Edwards
10:15	Victoria Pfeifer	"For I Must Nothing Be:" Bisexuality and the Ontological Challenge in Shakespeare's <i>Richard II</i>	Kathryn Will
10:30	Bria Winfree ^{LM}	Slang and Semantics in Self-Descriptors	Will Rogers
10:45	Toiya Smith ^D	Just(US) League: An Implicit Bias Training Program	Esmail Ashraf

Afternoon Session

<u>Time</u>	<u>Student</u>	<u>Title</u>	<u>Mentor</u>
1:15	Corey St. Romain	Analysis of Baboon (<i>Genus papio</i>) Population Structure Using Alu Insertion Polymorphisms	Mark Batzer
1:30	Lauren Little	Intergenerational Effects of Crude Oil Exposure on Morphology and Fitness in Gulf killifish (<i>Fundulus grandis</i>)	Fernando Galvez
1:45	Jared Robinson	Presence of Jamestown Canyon Virus in White-Tailed Deer (<i>Odocoileus virginianus</i>) of the Florida Parishes in Louisiana	Kristen Healy
2:00	Olevia Sharbaugh	The Effects of Natural Disasters on Economic Growth at the Subnational Level	Areendam Chanda
2:15	Brandi Sun	Correlated Evolution of Plumage Coloration in Female and Male Antbirds (<i>Aves: Thamnophilidae</i>)	Robb Brumfield
2:30	Yasmeen Kawji	An Investigation of the Proline Biosynthesis Pathway in <i>Tigriopus californicus</i> in Response to Salt Stress	Morgan Kelly
2:45	Henry Crull	Morphological Taxonomy of Centropogon Pollen	Laura Lagomarsino
3:00	Michael Brands	Ionic Liquid Polyacrylamide Gel Electrophoresis for Improved Separation of Glycoproteins and Small Egg White Peptides	Isiah Warner

ORAL PRESENTATIONS

CAPITAL CHAMBER, ROOM 329

Morning Session

Time	Student	Title	Mentor
9:00	Collin Chapman	Queer/Trans Witchcraft: The Role of Discourse and Western Ontology in a Non-Mainstream LGBTQ Practice	Helen Regis
9:15	Ethan Gilberti	Susan Hopley or the Defacing of a Feminist Monument	Sharon Weltman
9:30	Zaria El-Fil [†]	Birthing a Nation Through Violence: Sexual Exploitation and Resistance of Enslaved Women	Daina Ramey Berry
9:45	Samantha Stewart, Darnell Andrews, Ronald Kennedy, and Katherine Davis	Property Crime on Campus: How Students, Faculty, and Staff Can Take Charge	William Chernoff
10:15	Carly Moore	Examining the Interaction of State and Trait Anxiety on Working Memory Performance	Matthew Calamia
10:30	Alison Brabham ^{LM} and Sarah Treadway	Positive Representation in Netflix's The Dragon Prince	Will Rogers

Afternoon Session

Time	Student	Title	Mentor
1:00	Esther Yoo	Estimating Oil Well Operability Rates Using MATLAB	Ipsita Gupta
1:15	Connor Becnel	A Fan-Beam Approach to Measure the Temperature Field in Rocket Exhaust Using Laser Absorption Spectroscopy	Shyam Menon
1:30	Dylan Bienvenu	Heat and Mass Transfer in a Flat Heat Pipe with Square Grooves	Harris Wong
1:45	Raphaella Mettig	Automated Unpacking of Malware with Memory Forensics	Golden G. Richard III
2:00	Hunter Simonson	Engineering Magnetic Nanostructures	James Dorman
2:15	Syed Zamin	Enhanced Mechanical Properties of Collagen Matrix by Incorporating Lignosulfonate	Jangwook Jung
2:30	Chase Anselmo	Social Signals Detected by the Mechanosensory Lateral Line System Influence Reproductive Behavior and Neural Activation Patterns in an African Cichlid Fish	Karen Maruska
2:45	Roman Hundley	Design and Construction of Continuous Pyrolysis System using Induction Heaters	Lavrent Khachatryan

STUDENT PANELS

Red River, Room 323

<u>Time</u>	<u>Panel Topic</u>	<u>Faculty Moderator</u>	<u>Student Panelists</u>
9:00 a.m. - 10:00 a.m.	Biomedical Research	David Donze	Sarah Cohen, Meagan Moore, and Grayce Mores
10:30 a.m. - 12:30 p.m.	Art History	Darius Speith	Cameron Emamdjomeh, Madelaine Kobe, Mia Smith, and Meredyth Yorek
1:00 p.m. - 2:00 p.m.	Environmental and Natural Sciences	Mike Kaller Steve Midway	Devin Comba, John [Jack] Green, Yasmeen Kawji, and Madelyn Smith

2019 TAF/LSU DISCOVER MENTOR AWARD



LSU Discover is proud to announce that the winner for the 2019 Tiger Athletic Foundation/LSU Discover Undergraduate Research Mentor Award is Dr. Adam T. Melvin, professor of Chemical Engineering in the College of Engineering. This award honors faculty who actively and effectively guide undergraduate researchers, helping them to move toward independent work, and encouraging them to publish or present their findings. Dr. Melvin will be honored at the annual LSU Distinguished Faculty Awards ceremony on May 2nd in the Lod Cook Alumni center.

Adam Melvin obtained a BS in Chemical Engineering and a BA in Chemistry from the University of Arizona in 2004, a MS in Chemical Engineering [with a minor in Biotechnology] and a Ph.D. in Chemical Engineering from North Carolina State University in 2010. He was an NIH postdoctoral fellow at the University of North Carolina at Chapel Hill in the Departments of Chemistry and Biomedical Engineering from 2010-2013. In August of 2013, he joined the faculty as an Assistant Professor in the Cain Department of Chemical Engineering at Louisiana State University. His research interests include biochemical/ biomolecular engineering, biosensors, microfluidic devices, single cell analysis, personalized diagnostics, chemical biology, cancer metastasis, peptide inhibitors, algal migration, and novel teaching approaches including active learning, academic integrity, and flipped classrooms. He has several ongoing research projects that are funded by the NSF and NIH and was recently awarded an NSF CAREER award. He is also the co-director of an NSF-sponsored REU site at LSU combining entrepreneurship and energy research. During his time at LSU, Dr. Melvin has had the pleasure of working with 9 graduate students, 41 undergraduate students, and 15 high school students on over 30 different projects.

Dr. Melvin's students presenting posters at Discover Day:

Alexis Booe
Joshua Campbell
Haley Lassiter
Emmaline Miller
Amy Morgan

Jacob Pettigrew
Kelly Robertson
Olivia Sanchez
Noah Smith

FACULTY BROWN BAG PANEL

11:30 a.m. - 12:30 p.m. | Capital Chamber, Room 329

Hear from some of LSU's top researchers, who will provide advice from their experiences as researchers and educators across disciplines. The format will be a facilitated panel discussion and audience Q&A. Bring your lunch! This is co-organized by LSU Discover and the Office of Research & Economic Development.

Faculty Panelists

Irina Shport

Assistant Professor, Department of English

Jesse Allison

Associate Professor, School of Music

Brant Faircloth

Assistant Professor, Department of Biological Sciences

Graca Vicente

Distinguished Professor of Chemistry, Department of Chemistry



Dr. Jesse Allison



Dr. Brant Faircloth



Dr. Graca Vicente



Dr. Irina Shport

SPECIAL THANKS

LSU Discover would like to give special thanks to all of the individuals and groups who contributed to the success of LSU Discover Day 2019. Special gratitude is extended to Alison Satake, Strategic Communications Research Communications, the LSU Discover Advisory Board, and the jurors for the Student Art Show. We would also like to thank the LSU Research Ambassadors, LSU Discover Staff, art show technician Joey Tipton, keynote speaker Dr. Neil Johannsen, and all of the volunteers for their help with the coordination of this event.

Warm thanks to faculty mentors for their hard work, dedication to students, and efforts to inspire the next great generation of researchers and creative thinkers.

THANK YOU

LSU Discover Advisory Board

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Ryan Hoffman, *Student Representative*

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

Baton Rouge Magnet High School
Dillard University
Delgado Community College
Loyola University New Orleans
Mississippi State University
Nicholls State University
Southeastern Louisiana University
Southern University and A&M College

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Mars Newman, *Student Worker*

KEYNOTE SPEAKER

Dr. Neil Johannsen

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



Neil M. Johannsen, Ph.D., is an Assistant Professor in the School of Kinesiology at Louisiana State University. In 1998, he graduated from South Dakota State University with a Bachelor of Science in Chemistry. His graduate training was conducted at Iowa State University where he obtained a Ph.D. within the Department of Health and Human Performance in 2007 with a focus on the Biologic Basis of Exercise, in particular, exercise metabolism and physiologic responses to fluid intake during exercise. During his time at Iowa State University, he was awarded the Future Faculty Fellowship Award for demonstrating outstanding scholarship and promise for becoming a faculty member in higher education. From 2007 until 2012, he was at Pennington Biomedical Research Center as a Post-doctoral Researcher and later, an Instructor, in the Department of Preventive Medicine. His research focus at Pennington was the study of physical activity and exercise training effects on chronic disease and special populations where he played an integral role in more than 10 research studies involving populations ranging from young lean adults to older adults, overweight/obese people, individuals with type 2 diabetes, and women with a history of breast cancer. Dr. Johannsen remains on the Preventive Medicine team at Pennington as a Adjunct Assistant Professor.

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