2024 Faculty Sustainable Development Research Summit

WELCOME March 8th, 2024 8:30 am – 1:00 pm



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2024 Faculty Sustainable Development Research Summit

Opening Remarks

Dr. Ramesh Kolluru

Vice President for Research, Innovation, and Economic Development



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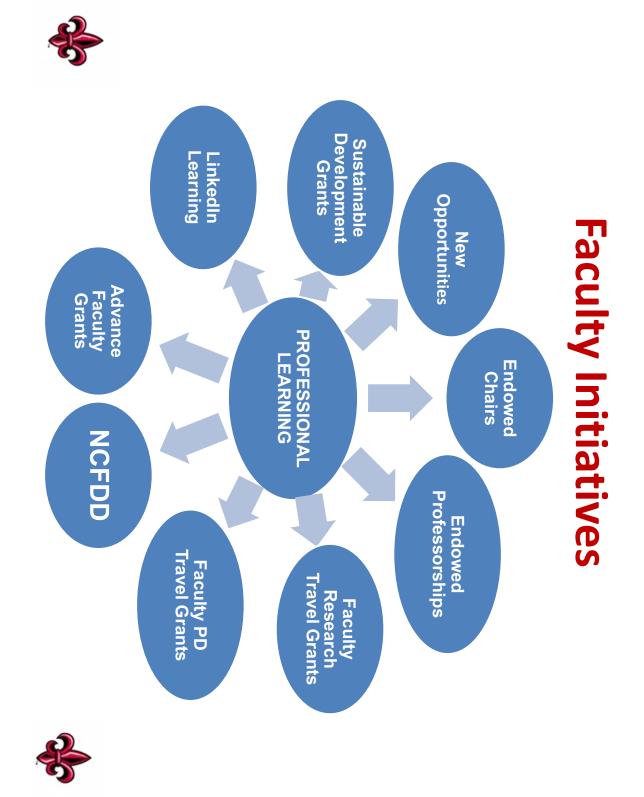
Vice President Research, Innovation Dr. Ramesh Kolluru & Economic Development

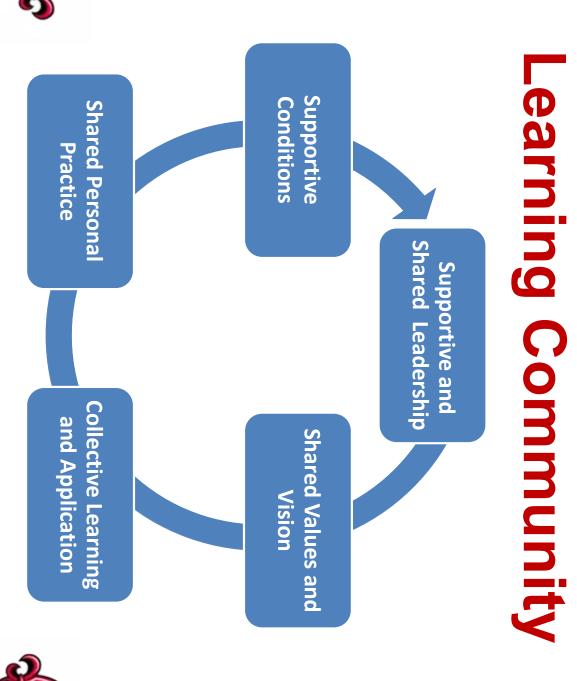


Dr. Dianne Olivier

Associate Vice President for Academic Affairs Office of Student & Faculty Excellence Professor of Educational Leadership











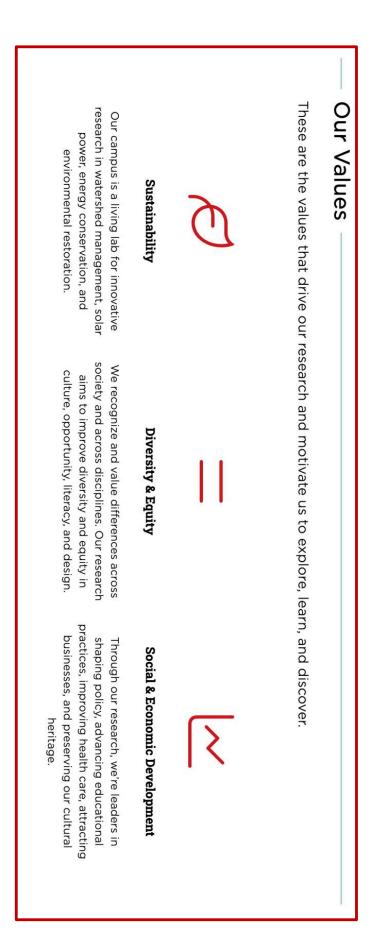
Eminent Scholar Endowed Chair in Finance Dwight W. Andrus, Jr. / BORSF Dr. Brian Bolton Professor of Finance



THANK YOU!

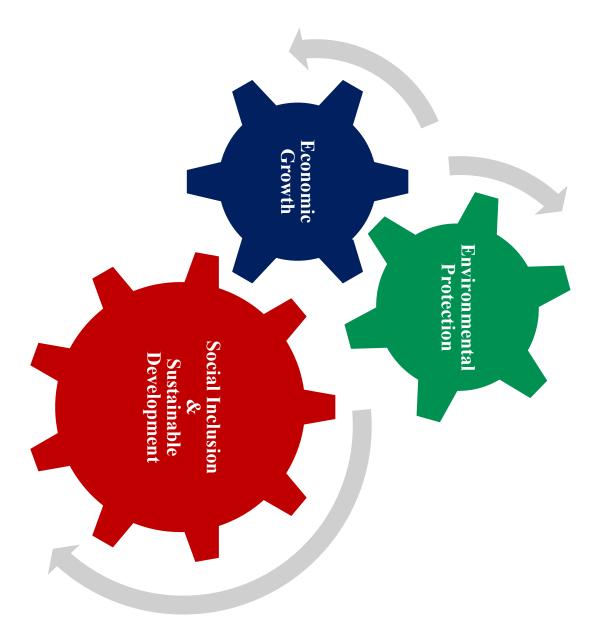
The University of Louisiana at Lafayette Foundation The Entire Andrus Family **President Joseph Savoie** The Board of Regents Dwight W. Andrus, Jr.

Brian Bolton Professor of Finance Dwight W. Andrus, Jr. / BORSF Eminent Scholar Endowed Chair in Finance





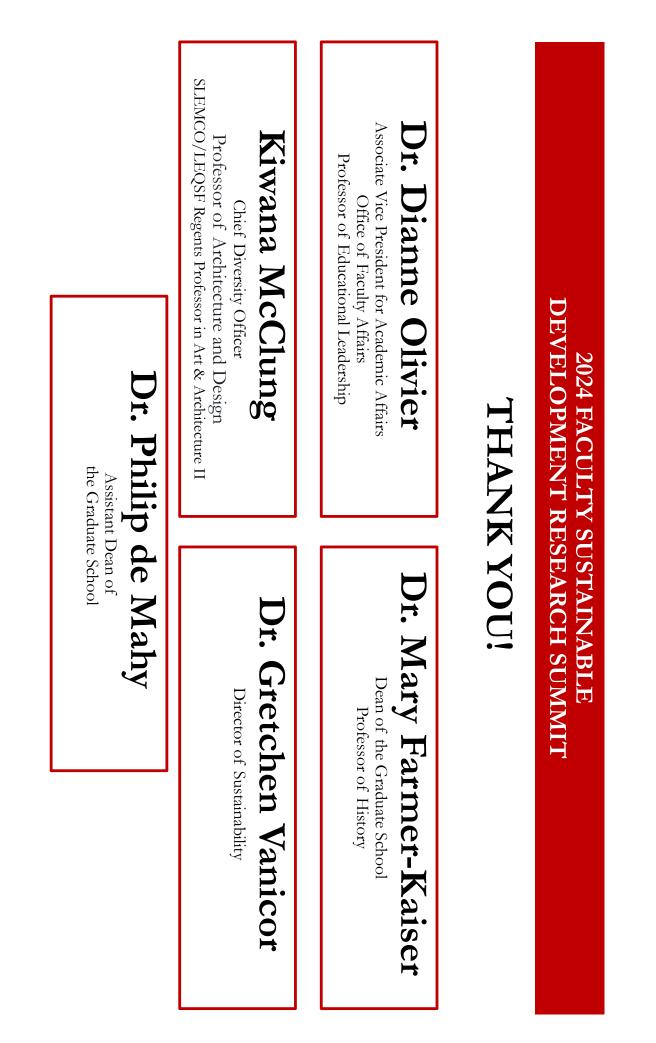
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THE UNITED NATIONS' 17 SUSTAINABLE DEVELOPMENT GOALS (SDGs)





THANK YOU!

Research, Innovation & Economic Development Ramesh Kolluru Kumer Das Geoff Stewart Christine Payton Tatum Moss

Travis Carmouche Jonathan Shirley Kevin Guillory Jennifer Ercoin & the Entire Graduate School Team Melanie Sam Shirlane Sam

THANK YOU!

- **1.** Heather Stone: "Isle of Memories: Stories of the Jean Charles Choctaw Nation"
- 2. James Albert: "Documenting Body-Shape in Riverine Fishes"
- 3. Emad Habib: "Fostering Flood-Resilient Communities: Integrating Hydrodynamic Modeling, Socio-Economic Risk Assessment, and Inclusive Communication"
- 4. Liz Skilton: "The Sustainability of Coastal Restoration: Tracking Community Understandings of Restoration Projects at 5 or More Years"
- 5. Emily Kane: "You'll Never Look at a Roadside Ditch the Same After This! Small, Boring Fish Make a Big Impact on Pest Control"
- **6. David Kim:** "Duration of Flood Risk Perception and Recommendations for Sustainable Development: Climate Change, Natural Disaster, and Community Education for Preparation"
- 7. Ling Fei: "Electrochemical Energy Technologies for Carbon Neutrality / Negativity"
- 8. Yu Wang: "Development of Novel Water Purification Materials for the Removal of Perfluoroalkyl Substances (PFASs)"
- 9. Tori Flint: "Literacies Beyond Bars: (Re)claiming and (Re)imagining Identities Through Multimodal Family Literacy Practices"
- **10.** Liane Hancock: "Serving the Under-served: Building Resiliency for Manufactured Homes across the Coastal South"

- 11. Yung-Hsing Wu: "Reading Race with Oprah and Our Students"
- **12.** Manyu Li (Presented by Ayodeji Adegoke): "Cultivating a Sense of Belonging for Inclusive and Equitable Education: From Research to Application"
- **13.** David Squires: "'Proof That We Ever Was': Exhibiting the Ernest J. Gaines Center Collection"
- 14. Christine Weill, with Ryan Nelson & Holly Damico: "Investigating Our Legacy: Twenty Years of Language and Literacy Projects in Southwest Louisiana"
- **15.** Marietta Adams, with Aimee Barber, Amanda Mayeaux & Nathan Roberts: "Lactation Policies and the K-12 Teacher Workforce: A Law and Policy Analysis to Determine a Model Policy to Encourage and Support the Recruitment and Retention of Female Teachers"
- **16.** Stephanie Arceneaux: "Education of Nursing Students on Human Trafficking Improves Knowledge"
- **17. Emily Sandoz:** "Promoting Appetitive Learning of Consensual, Empowered Vulnerability: A Contextual Behavioral Conceptualization of Intimacy"
- 18. Randy Gonzales: "Filipino Food, Louisiana Ingredients'
- **19. Emily Blosser:** "Food for Thought Teaching the UN Sustainability Goals in Sociology 494: The Sociology of Food and Eating"

8:00-8:30	Coffee & Snacks in the Atrium
8:30-9:00	Welcome & Opening Remarks Ramesh Kolluru, Dianne Olivier & Brian Bolton
9:00-9:30	Ambassadors' Research Presentations
9:30-10:00	Research Presentations – Focus on Environmental Protection
10:00-10:30	Coffee Break & Breakout Sessions The breakout sessions will be in the LEED Center
10:30-11:05	Research Presentations – Focus on Social Inclusion
11:05-11:45	Research Presentations – Focus on Health, Wellness & the Human Element
11:45-12:15	Breakout Sessions - in the LEED Center
12:15	Boxed Lunch Provided
12:20-12:40	Special Announcements (about more awards and money) Introduction of the Graduate Student Research awards



FULL DETAILED SCHEDULE



College of Education and Human Development University of Louisiana at Lafayette Dr. Heather N. Stone Associate Professor





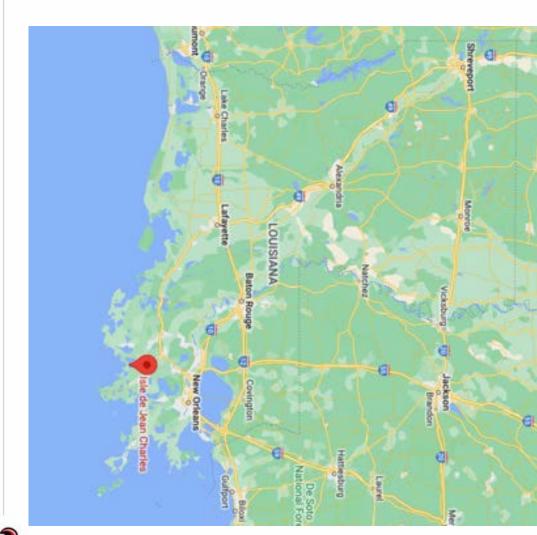




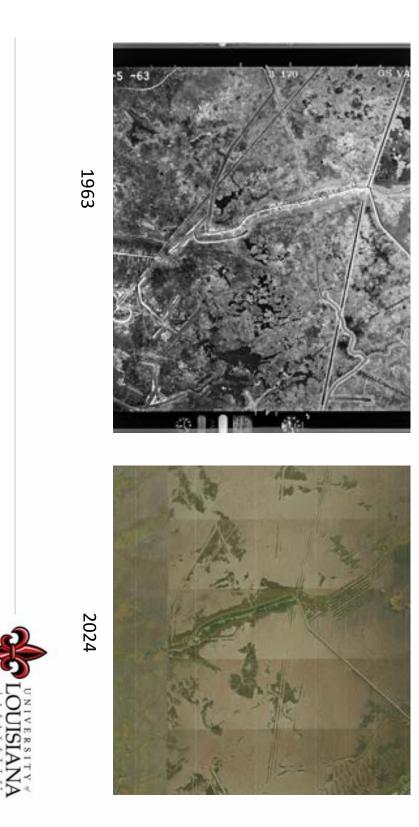


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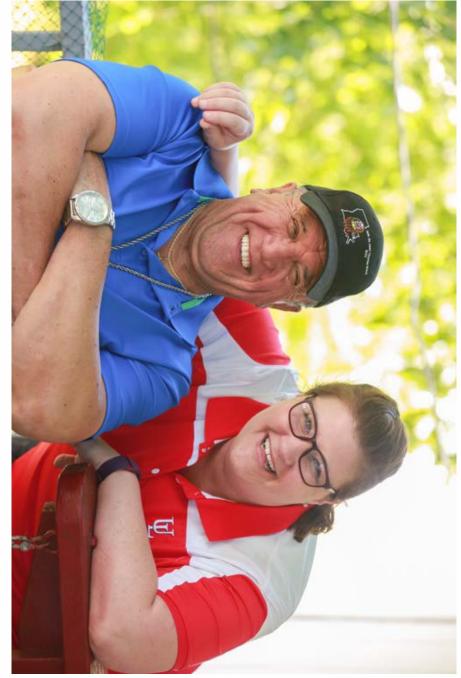


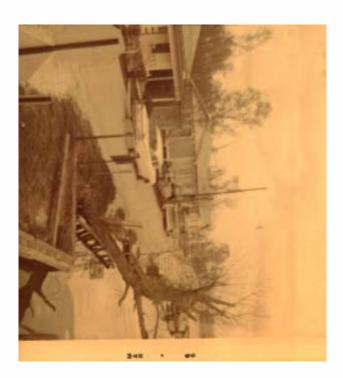












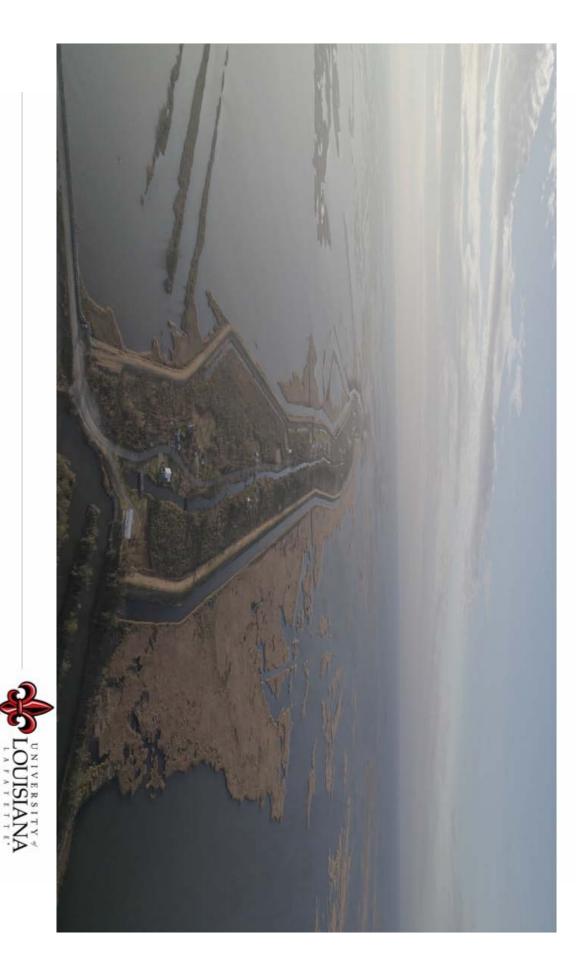














College of Education and Human Development University of Louisiana at Lafayette Dr. Heather N. Stone Associate Professor





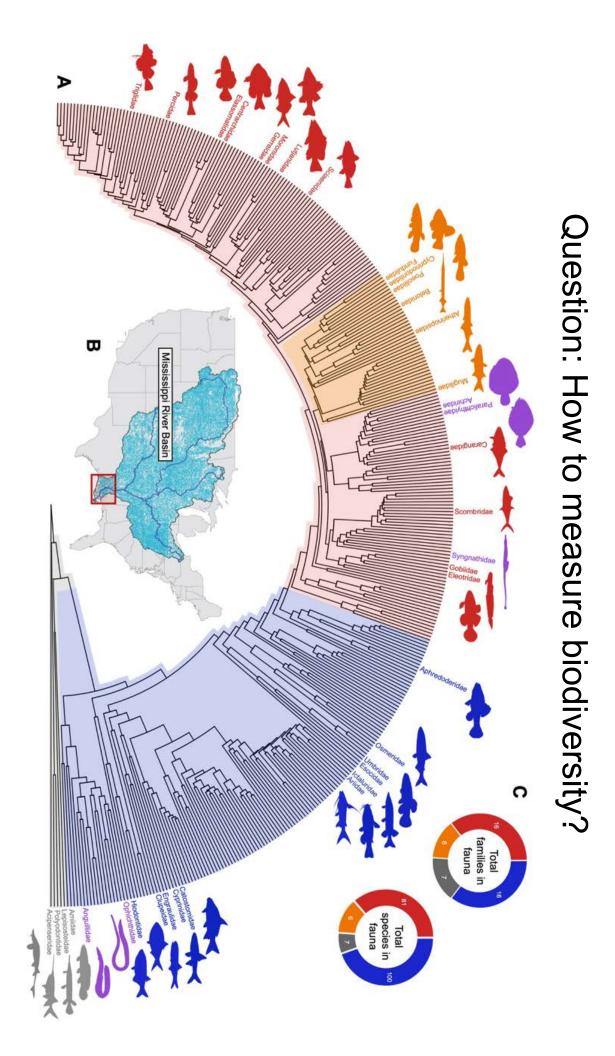




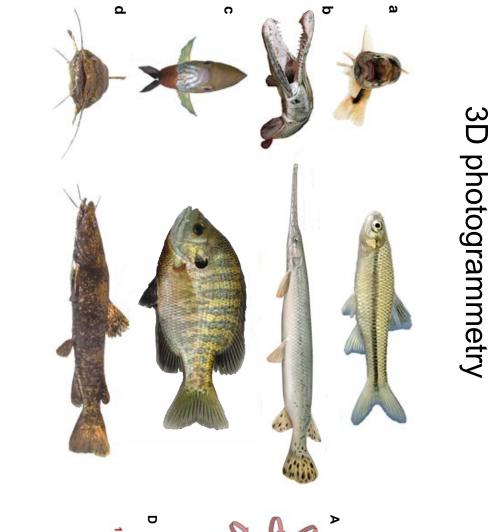


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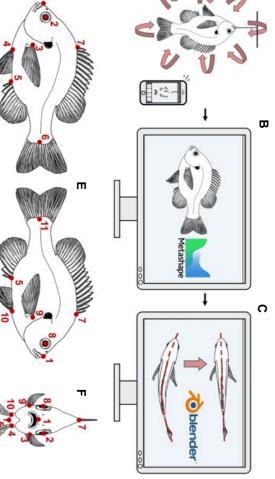




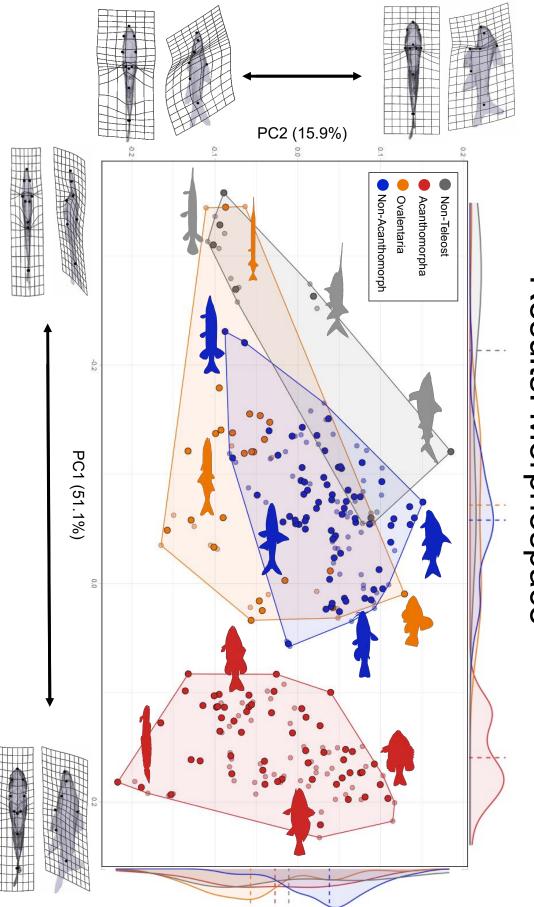




Multivariate statistics Homologous landmarks Digital shape corrections



10



Results: Morphospace

Fostering Flood-Resilient Communities

Overall Objective

communities to engage in and support effective flood mitigation strategies? How can advances in hydroinformatic technologies empower flood-prone

Emad Habib, PhD, PE

Collaborators: Mohamed Elsaadani, Brian Miles, Robert Miller, Trung Do Liz Skilton, Anna Osland, Stephen Barnes, Emma Wills, Thi Diep





Louisiana Watershed Flood Center

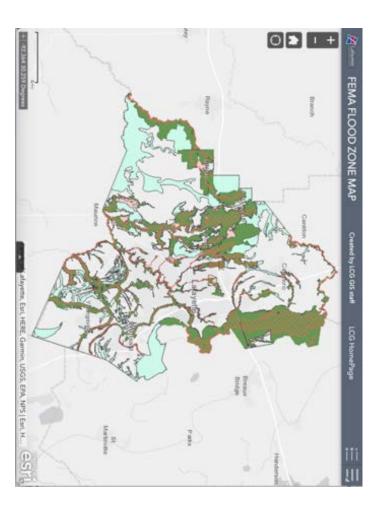
HISTORY, GEOGRAPHY, & PHILOSOPHY

BLANCO PUBLIC POLICY CENTER

Civil Engineering



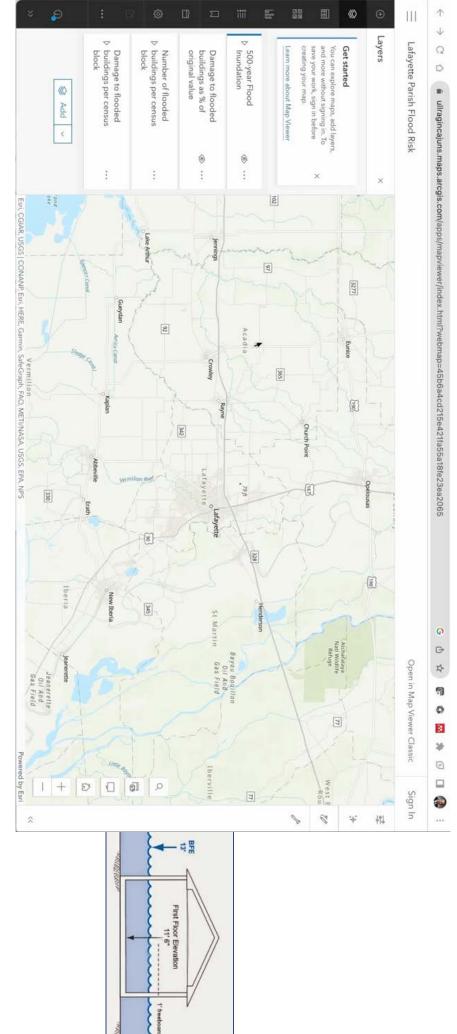
Current flood information promote static and individualized perception of flood risk, create a false sense of security, and lead to social and cultural divides.





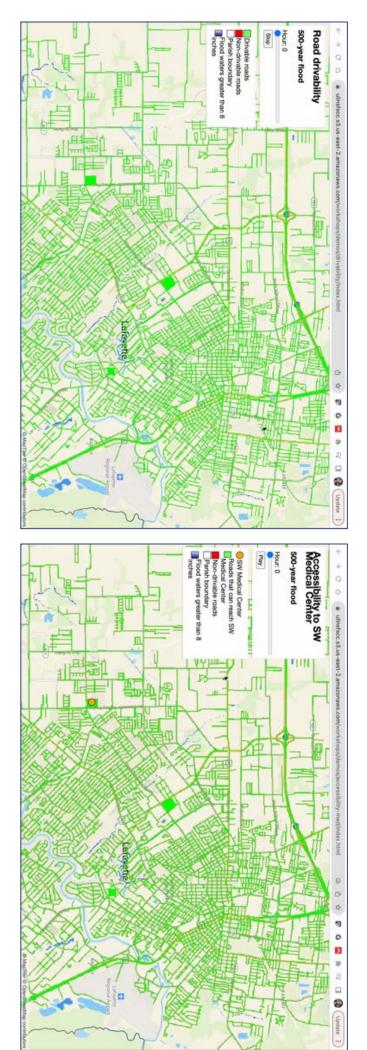
Communities need flood informational tools that harvest local knowledge, quantify dynamic risk at local scales, broaden risk perception, and use equitable metrics.

What does it mean for my Home?



Use flood risk metrics that translate impacts into Individual Scales

Develop flood informational tools that communicate impacts at both Individual and community scales



Impact on Transportation and Accessibility

We need a paradigm shift in both as scientists and Extreme Climate and Communities at Play: Hydroinformatic

how we deal with climate risk, equitable solutions that help We need to use co-creation approaches to develop communities adapt to communities 0 uoi^{je}ai) Technologies **Extremes** Climate Communities

scales, broaden risk perception, quantify dynamic risk at local Communities need tools that harvest local knowledge, & use equitable metrics

partnerships, including media We need to invest in civic organizations

habib@Louisiana.edu

https://ourfloodrisk.org

extreme events

Coastal Restoration: The Sustainability of

Tracking Community Understandings of Restoration Projects at 5 or More Years

Associate Professor of History Associate Director of Research, Blanco Public Policy Center **COUNTING LOUISIANA** Liz Skilton, PhD



Kathleen Babineaux Blanco Public Policy Center



community impact from constructed on community perspective/impact after of coastal projects, yet limited research thriving coast for Louisiana's projects benefit from improved understanding of Future coastal projects and policies will completion groups in planning and implementation communities, ecosystem, and economy are a key component of creating a Louisiana's coastal restoration projects There is effort to engage community Purpose The Project (Spring 2023) **ESTORE** improve and evaluate metrics for Use History Harvest outcomes to from coastal restoration projects from coastal restoration projects social benefits and challenges social benefits and challenges Develop metrics to evaluate Harvest histories of coastal Approach restoration



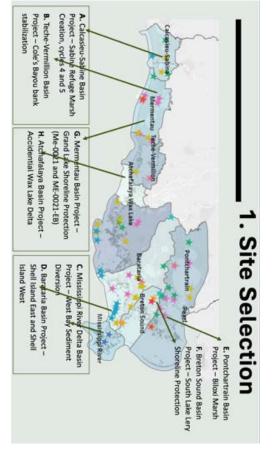
THE MISSISSIPPI RIVER DELTA

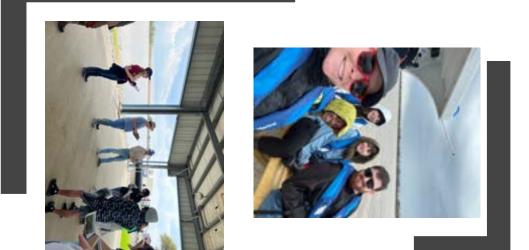
Funding Provided By:



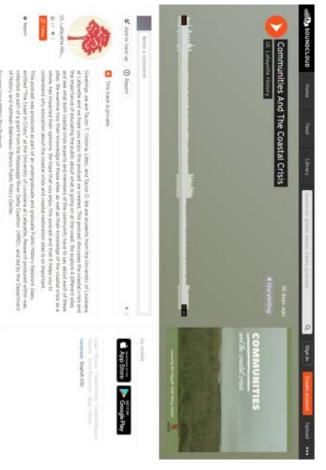


The Research (Jan-Mar 2023)





Undergraduate Projects: Podcast & Website (May 2023)





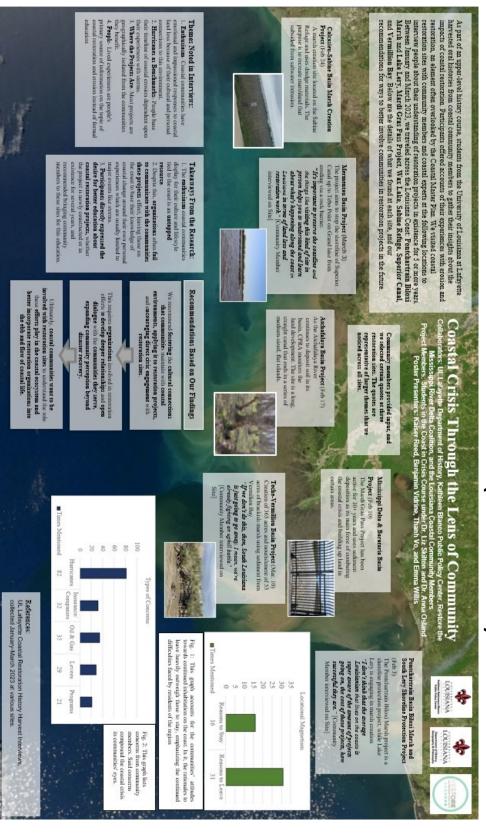
History of Our Project

e the 1980s, Louisana has shrunk over 2.000 miles, now averaging a loss equivatent to a footbal field of land per day. Our course, appropriately tried, *The Coast in Crocks*, mitoduces you to the historical and d by coastal communities in Louisana. The course is split into three primary regions of coastal focus, the eastern and weatern sides of the Mississppi River delta, and the Cherlier Plan of Louisana. This coa argraduate and graduate students after who with the help of their professor, Dr. Skitton, partnered with The Katheen Blanco Public Policy Center to run a grant project meant to review how community

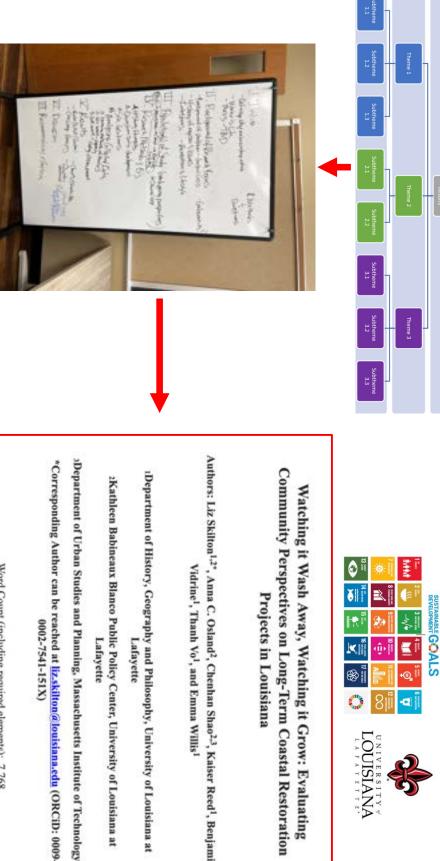
View the website here.

Listen to the podcast here.

Graduate Student Outcome I: Poster for State of the Coast (1st Place!) & Panel Presentation (Jun 2023)



Qualitative Coding & Journal Article (Aug-Oct 2023) Graduate Student Outcome II: Funding Provided By:



Word Count (including required elements): 7,768

*Corresponding Author can be reached at liz.skilton@louisiana.edu (ORCiD: 0009-

2Kathleen Babineaux Blanco Public Policy Center, University of Louisiana at

Authors: Liz Skilton^{1,2*}, Anna C. Osland², Chenhan Shao^{2,3}, Kaiser Reed¹, Benjamin

Community Perspectives on Long-Term Coastal Restoration



Liz Skilton, PhD liz.skilton@louisiana.edu

blancocenter.louisiana.edu



Kathleen Babineaux Blanco Public Policy Center

Dr. Gretchen Vanicor Director of Sustainability Office of Sustainability



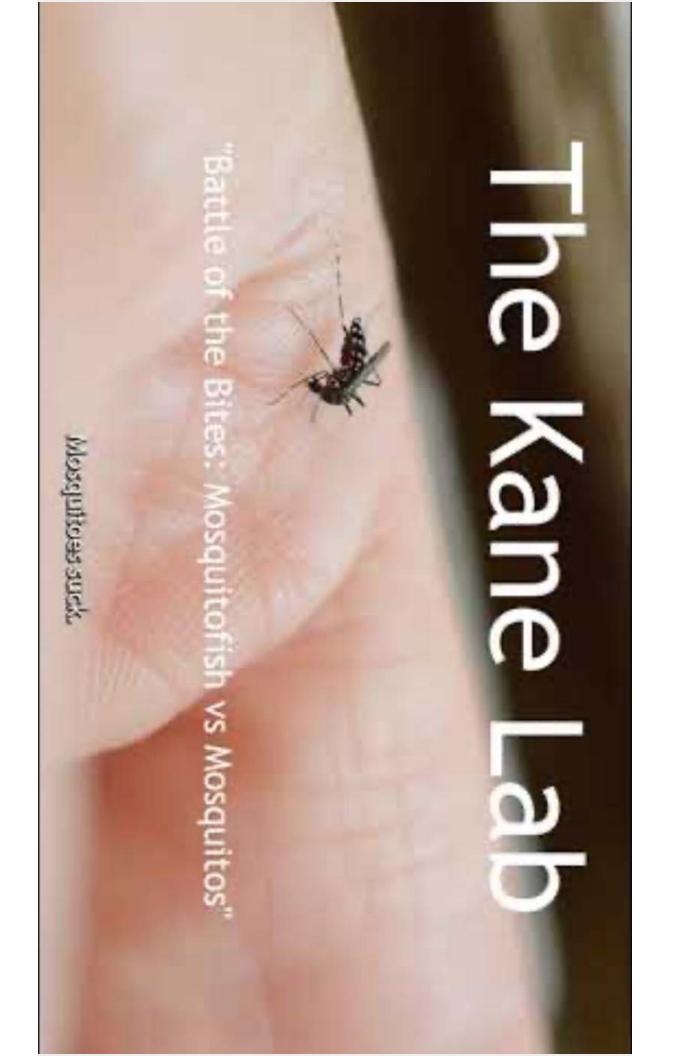
You'll Never Look at a Roadside Ditch the Same After This!

Small, Boring Fish Make a Big Impact on Pest Control



University of Louisiana at Lafayette

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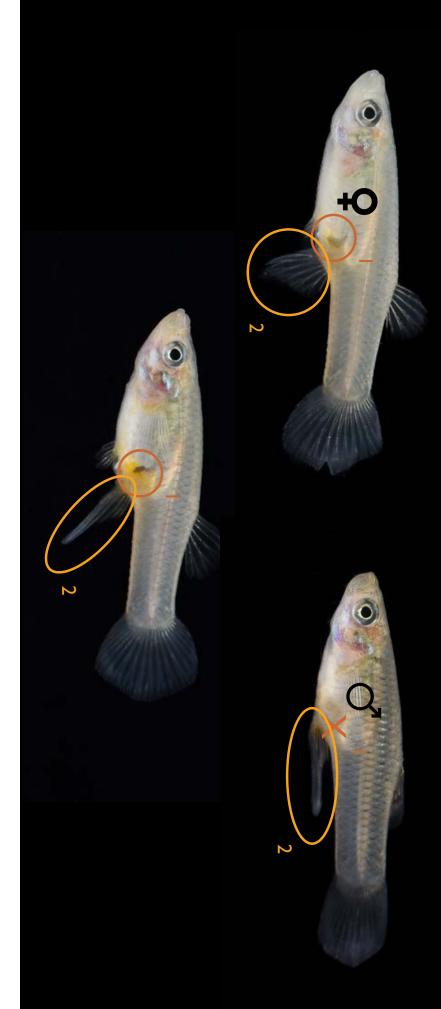


Short-term:

I-2 day survival at higher concentrations

Long-term:

Reduced prey capture and health at lower concentrations



THANK YOU!

Students: Shubham Yadav, Adeline Fogle

Nigel D'Souza, Gonzaga University

Kevin Caillouët and Nick DeLisi, St. Tammany Parish Mosquito Abatement

David Martin and Herff Jones, Iberia Parish Mosquito Abatement

Video: JF Imagery, JFImagery.com

Funding: St. Tammany Parish Mosquito Abatement, ULL Sustainable Development Grant



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Duration of flood risk perception and recommendations for sustainable development: Climate change, natural disaster, and community education for preparation

> 4 QUALITY EDUCATION

AND COMMUNITIES

13 CLIMATE ACTION

10 REDUCED INEQUALITIES

(Î)

Dr. D. K. David Kim

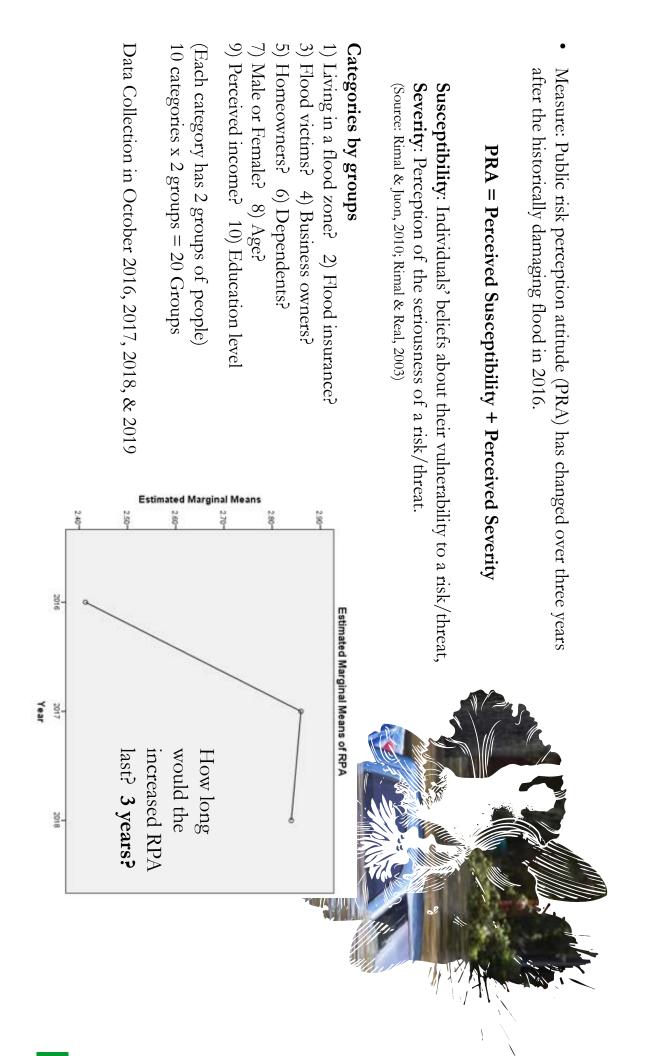
(do.kim@louisiana.edu)



UNIVERSITY OF LOUISIANA AT LAFAYETTE
DEPARTMENT OF COMMUNICATION
College of Liberal Arts

"How long do people in Southwest Louisiana remember their harsh experience caused by a flood that is one of the region's most frequently occurring natural disasters?"

1121





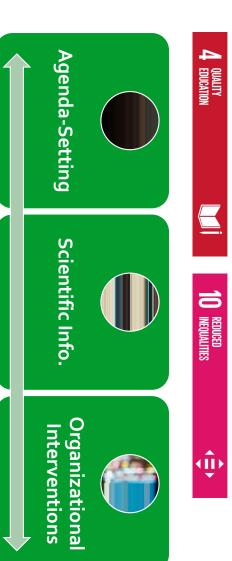


Interpretations of Findings and Discussion

» Crisis Preparation is needed!

13 CLIMATE ACTION

- ≈ In comparison with PRA in the first year, PRA increased in the 2nd year and was maintained in the 3rd year: People realized how the recovery after a flood could be hard as it took a long time and enormous effort and inconvenience.
- » Some demographic groups showed more fluctuating PRA:
- People of higher AGE & lower level of EDU./ ECON.

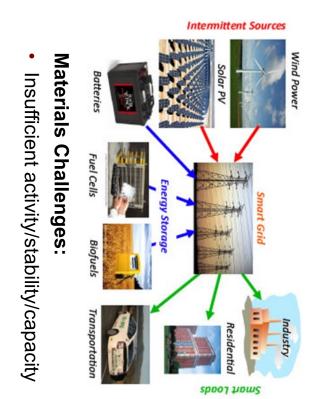




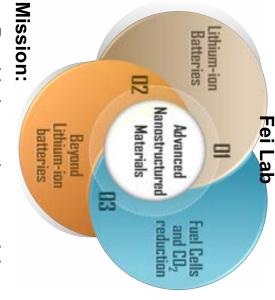
Carbon Neutrality/Negativity Electrochemical Energy Technologies for

Dr. Ling (Jessica) Fei Assistant Professor Department of Chemical Engineering University of Louisiana at Lafayette





- Limited earth reserve (e.g. Li, Co, Pt)
- Safety issues

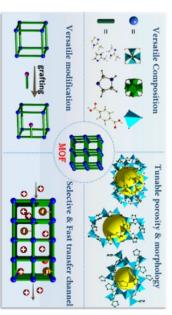


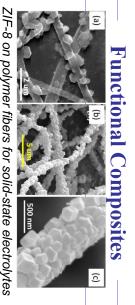
- Provide innovative materials
- electrochemical technologies
- Educate and equip highly skilled workforce for society



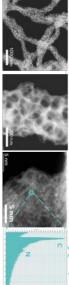
Materials

Metal-Organic Frameworks



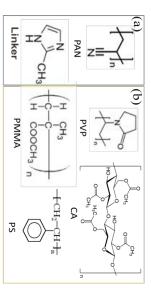


ZIF-8 on polymer fibers for solid-state electrolytes



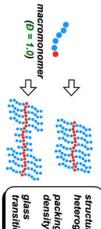
ZIFs/polymer-derived single-atom catalysts in carbon

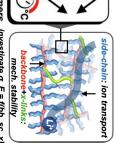
Polymers



b. Block polymer

c. Bottle brush polymer





Lawrence et al. JACS Au 2022, 2, 4, 898-905

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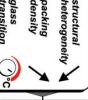
Topologically precise bottlebrush polymers investigate σ , E = f(bb, sc, x)



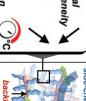




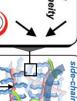




























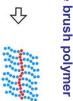




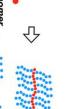


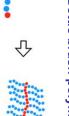




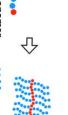


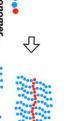


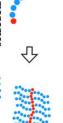


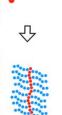


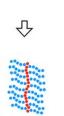


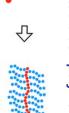


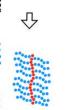


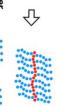


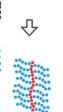


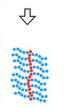






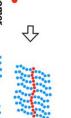


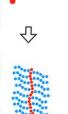


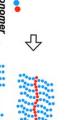


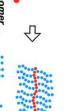


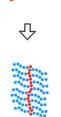


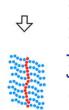


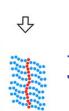


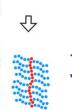


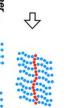


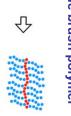


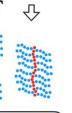


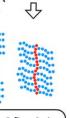
















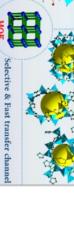


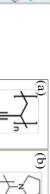




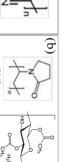






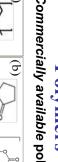


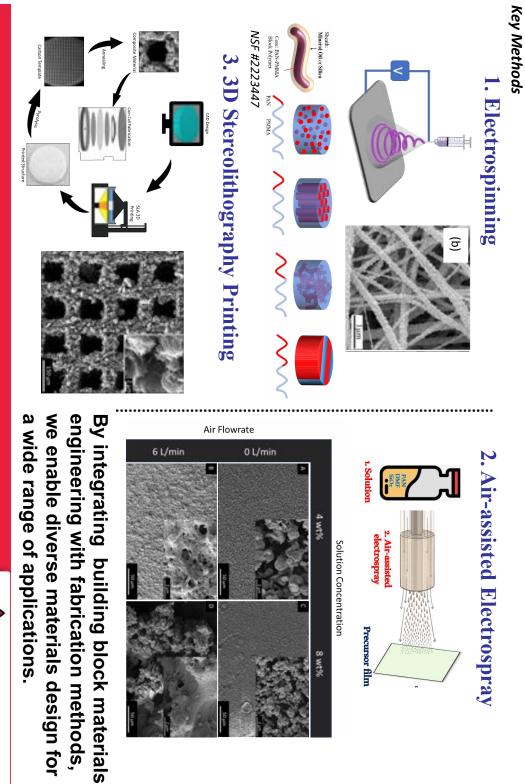




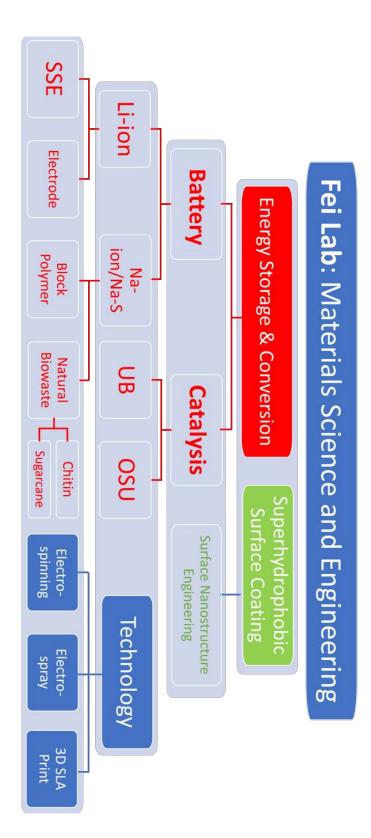




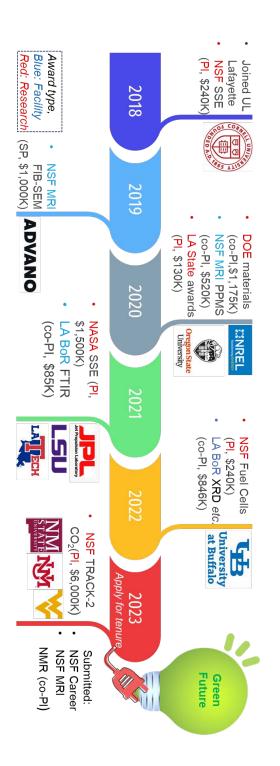












Over \$8M Research Funds



ling.fei@louisiana.edu

Thank YOU!

Development of Novel Water Purification Perfluoroalkyl Substances (PFAS) Materials for the Removal of

2024 Faculty Sustainable Development Research Summit University of Louisiana at Lafayette



Yu Wang & Samuel Antwi Department of Chemistry 03/08/2024



Perfluoroalkyl Substances (PFAS): Forever Chemicals

C&CM TOPICS - MAGAZINE - COLLECTIONS - VIDEOS JOBS

Michigan declares state of emergency in town with high PFOS, PFOA levels in drinking water

Stain resistant coatings

Non-stick cookwares

PFOA, PFOS **Drinking Water** Contaminants

PFAS

Water repellent fabrics

ource of perfluorocarbon pollution as yet unknown, state says

ED IN VOLUME 96, ISSUE 32

and PFOA in groundwater US EPA recommends cleanup level for PFOS

70 ppt standard would apply to aquifers that are current or potential sources of drinking water

PERSISTENT POLIUTIANTS

challenge in the US Why limiting PFAS in drinking water is a

The EPA faces legal and other hurdles as it attempts to regulate PFOA and PFOS

Household Cleaners

Firefighting Foams

coating for paper products Grease and oil-resistant

Key Issue: Environmental Health

Health Risks:

RED IN VOLUME 98, ISSUE 27

PERSISTENT POLLUTANTS

FDA raises concerns about PFAS in food

Some fluorination processes can lead to PFAS leaching into food from polyethylene containers



by Britt E. Erickson

Environmental Pollution 208, Part B, January 2016, Pages 704-71:



ground/drinking water of the Ganges River basin: Emissions and implications for human exposure Perfluoroalkyl substances (PFAS) in river and

a d, Pavlína









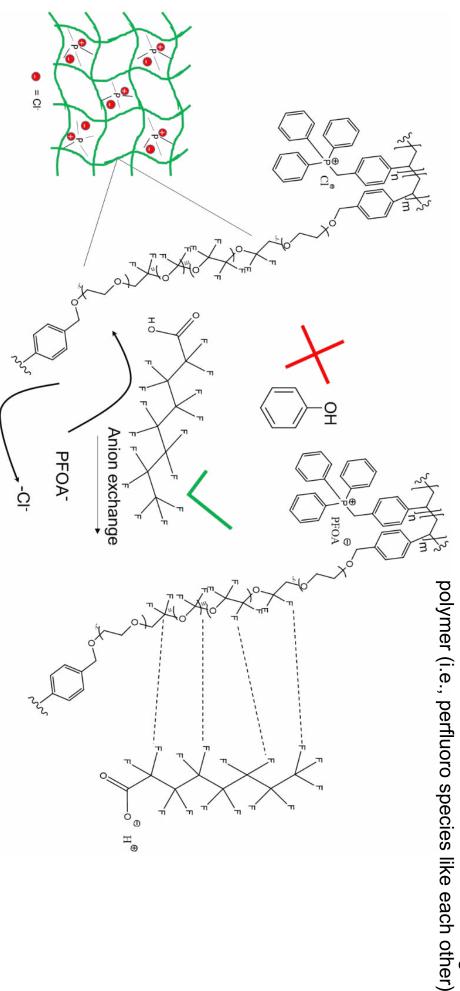
Perfluorooctanoic acid (PFOA)



immune deficiency, etc. cholesterol levels

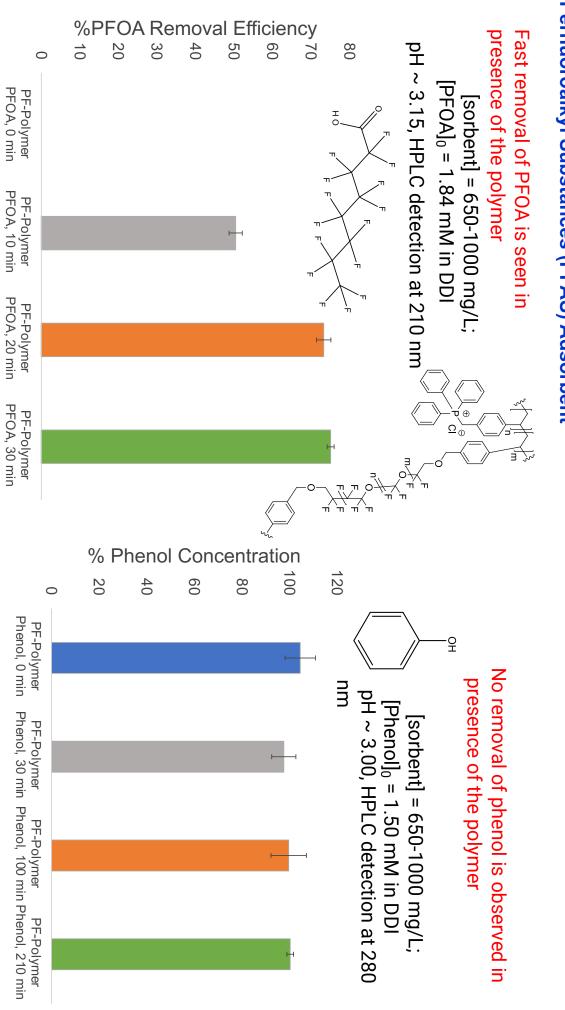
neurotoxicity, increased birth defects in children Cancer, hormone disruption,

Our Solution: Sensing + Separation + Sequestration (Destruction) US EPA Health advisory Limit: 70 ng/L (0.14 nM)



Perfluoroalkyl Substances (PFAS) Adsorbent

Favorable Vander Walls forces of attraction are posited for PFOA Favorable interaction with PF anion exchange polymer (i.e., perfluoro species like each other



Perfluoroalkyl Substances (PFAS) Adsorbent

Development of Novel Water Purification Perfluoroalkyl Substances (PFAS) Materials for the Removal of

2024 Faculty Sustainable Development Research Summit University of Louisiana at Lafayette



Yu Wang & Samuel Antwi Department of Chemistry 03/08/2024



https://www.mellasmagic.com



Whating inemotable events a little sweeter

SERVICING SOUTHWEST LOUISIANA



Breakout Sessions & Coffee Break

Coffee & calories are in the Atrium

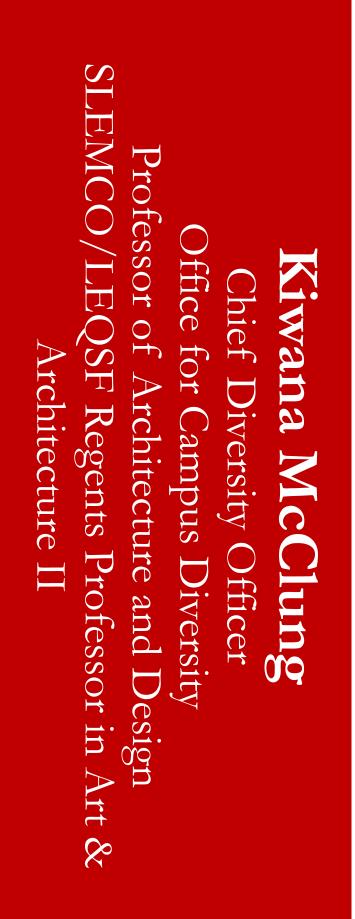
Breakout sessions are in the LEED Center

This is your chance to connect with the researchers and ask all of the questions you didn't get to ask during their brief presentation Jonathan Shirley, Kevin Guillory & the LEED Center Team can help you room, the training room, the classroom or the lounge area. Each of the previous presenters will find a corner – in the conference

Presentations will resume in here at 10:30

find a room and corner.



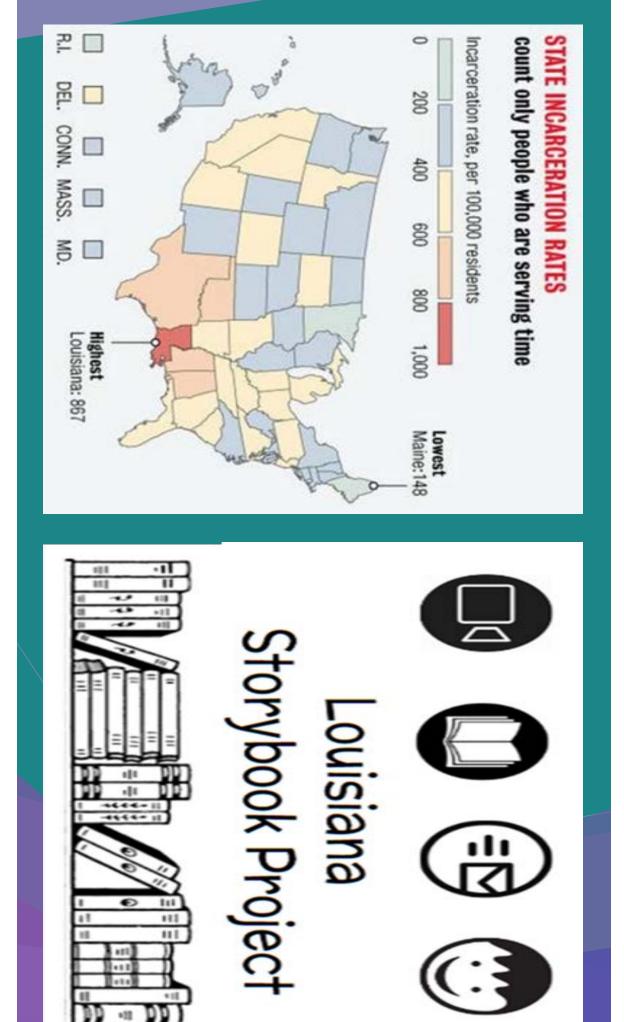




Literacies Beyond Bars: (Re)Claiming **Multimodal Family Literacy Practices** and (Re)Imagining Identities through

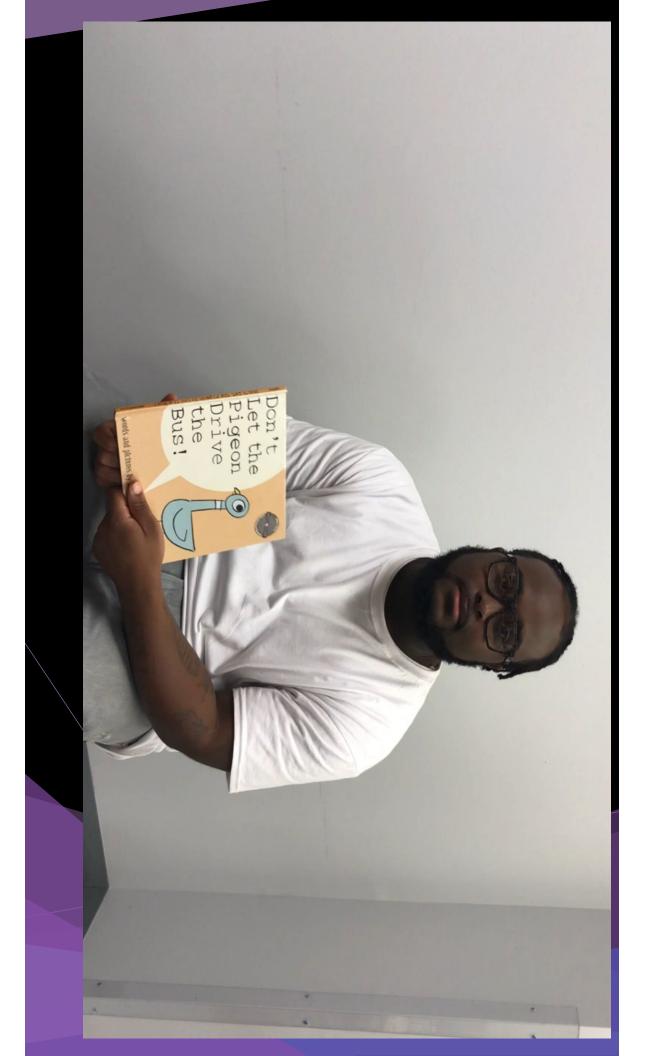
Department of Curriculum and Instruction (EDCI) Tori K. Flint, Ph.D. College of Education & Human Development

Sustainble Development Research Summit 2024 Univeristy of Louisiana at Lafayette





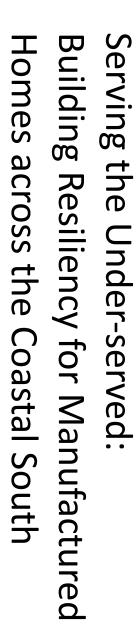




Literacies Beyond Bars: (Re)Claiming **Multimodal Family Literacy Practices** and (Re)Imagining Identities through

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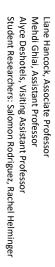
Sustainble Development Research Summit 2024 Univeristy of Louisiana at Lafayette



Liane Hancock Associate Professor School of Architecture and Design College of the Arts





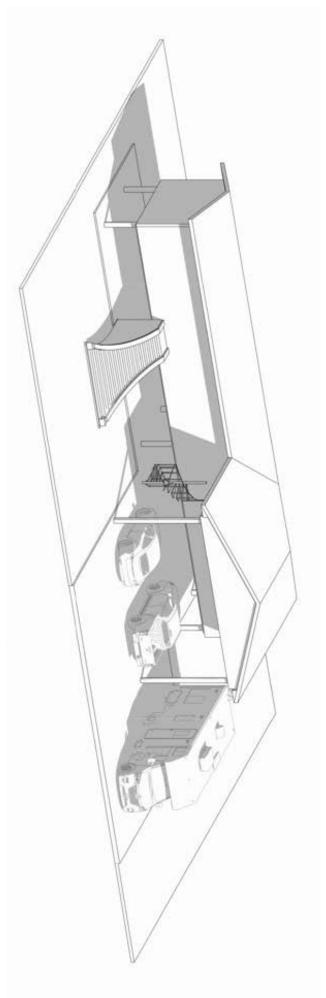








Retrofit Manufactured Homes Delcambre, LA





Retrofit Manufactured Homes Erath, LA



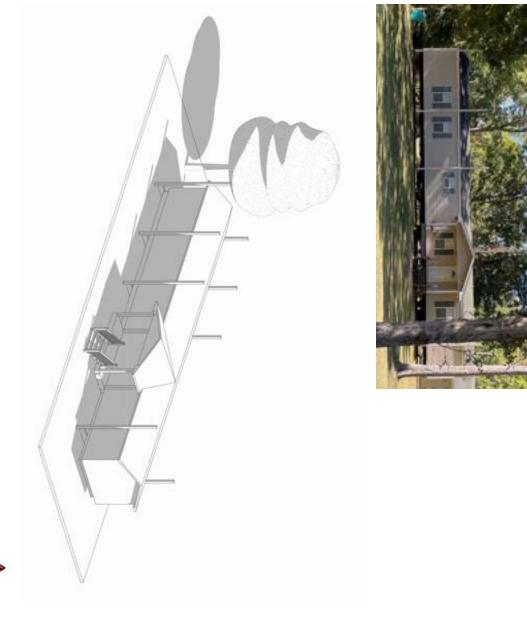
Liane Hancock, Associate Professor Mehdi Ghiai, Assistant Professor Alyce Deshotels, Visiting Assistant Professor Student Researchers: Salomon Rodriguez, Rachel Helminger



Retrofit Manufactured Homes Cameron Parish vs Lake Larto



Liane Hancock, Associate Professor Mehdi Ghiai, Assistant Professor Alyce Deshotels, Visiting Assistant Professor Student Researchers: Salomon Rodriguez, Rachel Helminger



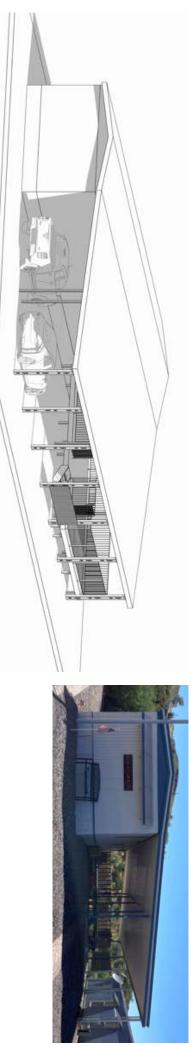
Retrofit Manufactured Homes Lake Larto, LA



Liane Hancock, Associate Professor Mehdi Ghiai, Assistant Professor Alyce Deshotels, Visiting Assistant Professor Student Researchers: Salomon Rodriguez, Rachel Helminger



Liane Hancock, Associate Professor Mehdi Ghiai, Assistant Professor Alyce Deshotels, Visiting Assistant Professor Student Researchers: Salomon Rodriguez, Rachel Helminger





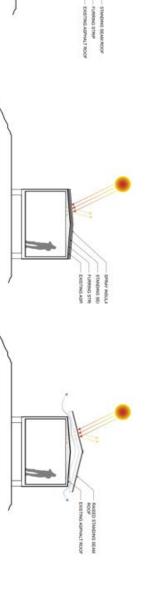
Retrofit Manufactured Homes Roosevelt, AZ





Liane Hancock, Associate Professor Mehdi Ghiai, Assistant Professor Alyce Deshotels, Visiting Assistant Professor Student Researchers: Salomon Rodriguez, Rachel Helminger

Retrofit Analysis: First Phase



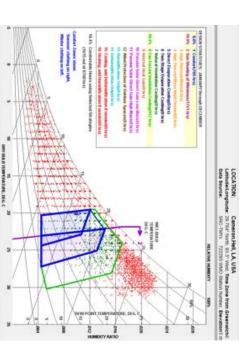
ADDIVINUT NOOF

Standing seam roof installed over asphaltStanding seam roof installedroof, with sprayed foam insulation on topabove asphalt roof

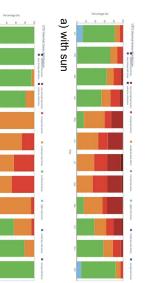
Existing asphalt roof

Standing seam roof installed over asphalt roof





Psychometric Chart for Louisiana thermal comfort zone and best strategies to expand the comfort zone



b) with no sun and wind

Thermal Stress distribution for outdoor thermal comfort in Louisiana



Liane Hancock, Associate Professor Mehdi Ghiai, Assistant Professor Alyce Deshotels, Visiting Assistant Professor Student Researchers: Salomon Rodriguez, Rachel Helminger



Clayton Home Builders



Mehdi Ghiai, Assistant Professor Alyce Deshotels, Visiting Assistant Professor Student Researchers: Salomon Rodriguez, Rachel Helminger Liane Hancock, Associate Professor



Department of Energy: National Laboratories

and Urban Design

Agriculture

Department of

Department of Housing





Possible Partners Retrofit Manufactured Homes









JumpintoSTEM:

- A building science competition for undergraduate and graduate students
- Creative ideation competition
- Emphasis on diversity, increasing representation by STEM students from backgrounds that are underrepresented in
- Students who win the Final Competition receive a paid summer internship at a national laboratory





OUR Heritag







Zackery Trahan, M.Arch Fall '24 , Summer internship '23, NREL Gabe Hoggard, M.Arch Fall '23, Summer internship '24, ORNL Parker Vice, M.Arch Fall '24 , Summer internship '23, PNNL



Liane Hancock, Faculty Advisor Gabe Hoggard, Parker Vice, Zackery Trahan Student Team





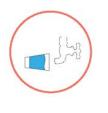


BACKGROUND Technical Field [0001] Provided herein are weather protection systems that can provide protection for a building from inclement weather and other adverse environmental conditions.

> JumpintoStem Final Competition Winning Team: Mais Bruh.... It's Da Cajuns Sha University of Louisiana at Lafayette











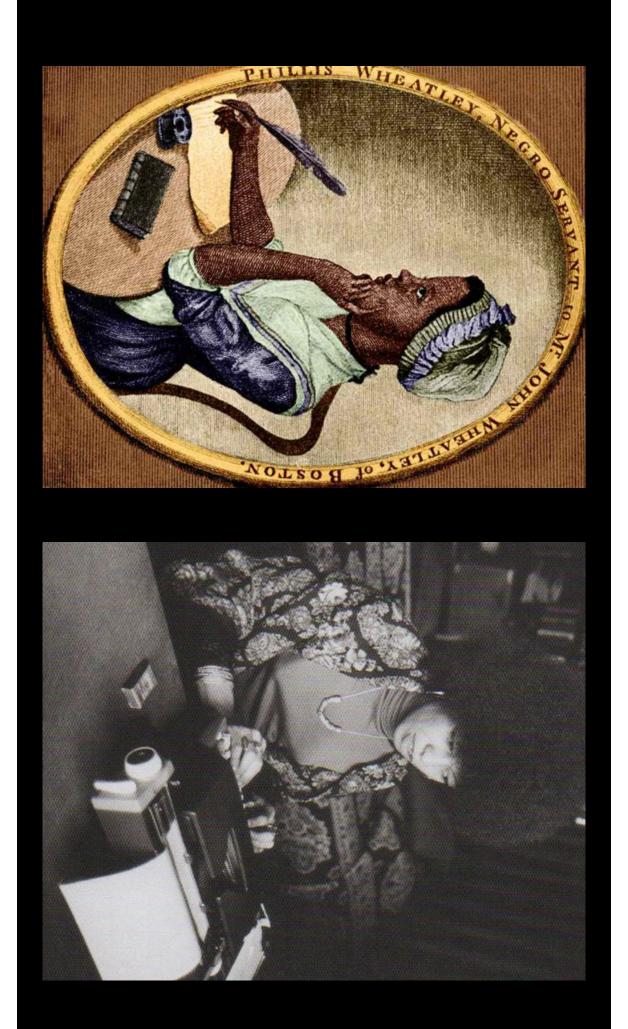
Liane Hancock, Faculty Advisor Gabe Hoggard, Parker Vice, Zackery Trahan Student Team



Reading Race with Oprah & Our Students

Yung-Hsing Wu Department of English

Sustainable Development Summit 2024





Ladi Opaluwa

Through this circumvention, the OBC pointed the reader's attention, if not away from race, at least not in its direction.

Kaylin Ambrose

For conferring that stamp of approval onto a Black text also places the hard-earned emotional investment of her predominantly white, female audience at risk.

Bek Credeur

OBC does not necessarily ignore race on principle, but privileges Oprah's experience of reading it, how it makes her feel.

Yamane Hill

Oprah not only sugar coats race, but spins it into a human experience that we all share.

Camille Duhon

This framing allowed OBC to hook its readers in with the premise of an interesting novel, encouraged them to buy the book, and ultimately brought them toward facing the persisting issues that slavery has had a hand in creating in today's United States once they read it.

Cheylon Woods

The message Oprah wanted to send with the selection of *A Lesson Before Dying* is clear; racism can be overcome by personal accountability and understanding of one another.

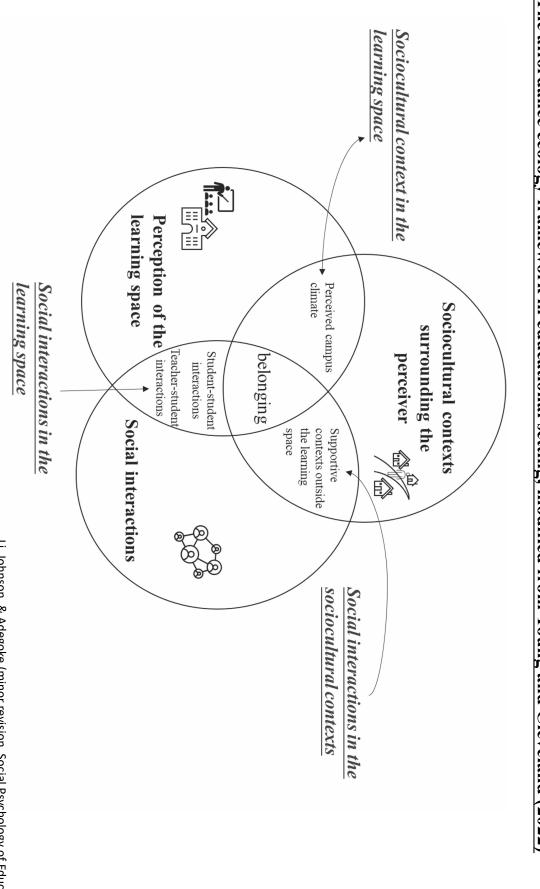
Data Science Application in Social and Community Psychology (DAISO) Research Lab

Presenter: Ayodeji S. Adegoke MS in Psychology Candidate Associate Professor, Department of Psychology, College of Liberal Arts

Manyu Li

Cultivating a sense of belonging for inclusive and equitable education: From research to application



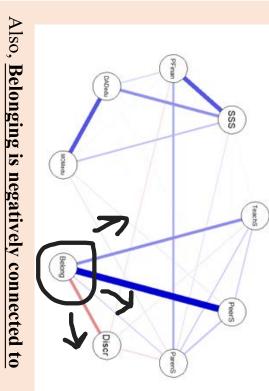


The affordance ecology framework in educational setting, modified from Young and Cleveland (2022)

Li, Johnson, & Adegoke (minor revision, Social Psychology of Education)

Study 1: How does belonging connect to other campus climate factors?

Gaussian Graphical Model revealed that <u>belonging</u> <u>in the academic setting had the highest network</u> <u>strength</u> among all the sociocultural indicators included, centrally connecting all other indicators.



perceived discrimination experienced on campus.

Li, Johnson, & Adegoke (minor revision)

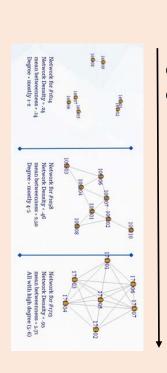
Study 2: What makes students feel belonged?

An egocentric social network approach was used to examine students' greater support network and to **explore network characteristics** that contribute to students' success.

1. Diversity of support network matters!



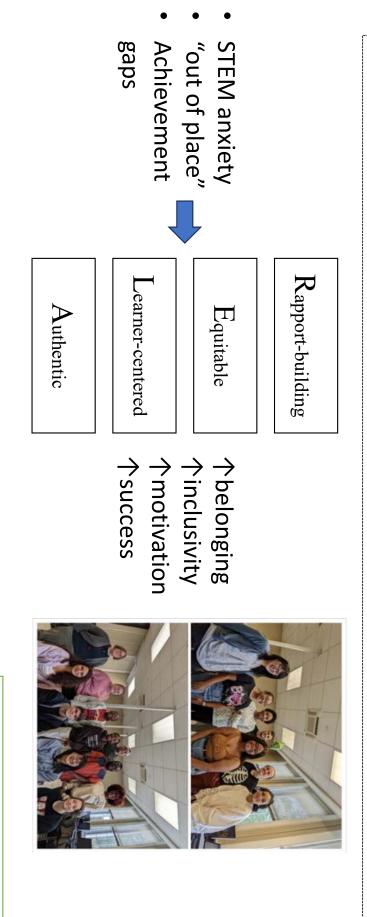
2. High network betweenness relates to high sense of belonging.



Li & Adegoke (in preparation)



Rapport-building, Equitable, Learner-Centered, Authentic Computational Social Science (RELACSS) framework



Northwestern State U Xavier University UL Lafayette

Li (2023, Frontiers in Education)

Future plans: basic and applied research side-by-side to build theoretical knowledge of belonging and to increase understanding of belonging on inclusive STEM education

Data Science Application in Social and Community Psychology (DAISO) Research Lab

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Manyu Li

Cultivating a sense of belonging for inclusive and equitable education: From research to application



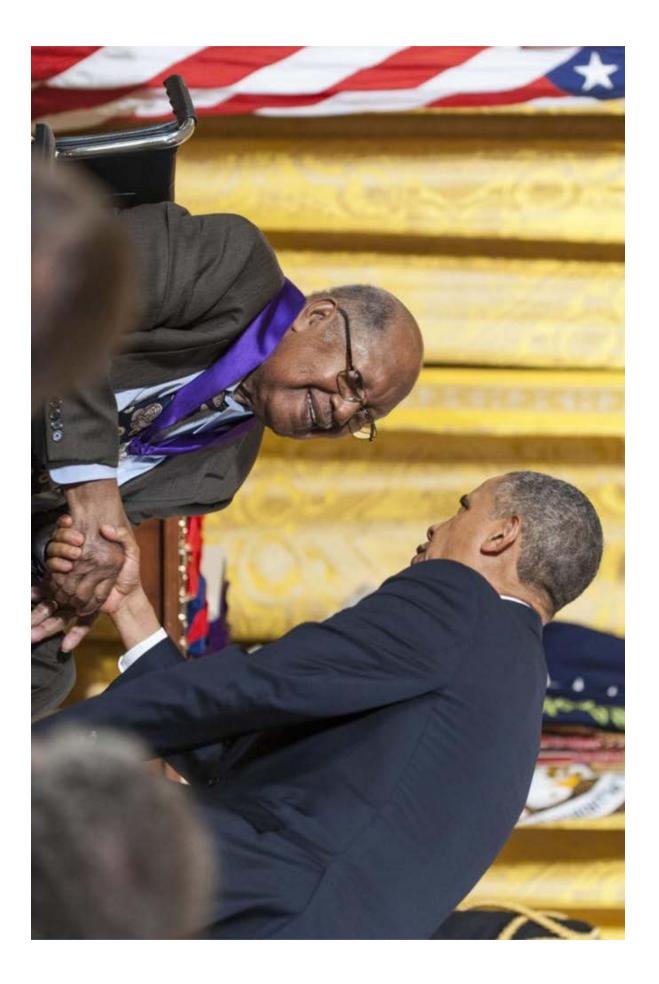
"Proof That We Ever Was"

Exhibiting the Ernest J. Gaines Collection

David Squires Associate Professor of English <u>http://davidsquires.org/scalar/</u> (select "view all")







"Proof that we ever was.]]





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The Collections

(38)

You sure?" boy been doing all that walking, and we still in Luzana? you, I'd head right on back where you come from." "uzena?" Miss Jane screamed out. "Me and this little "Yes, I'm sure," the white women said. "And if I was

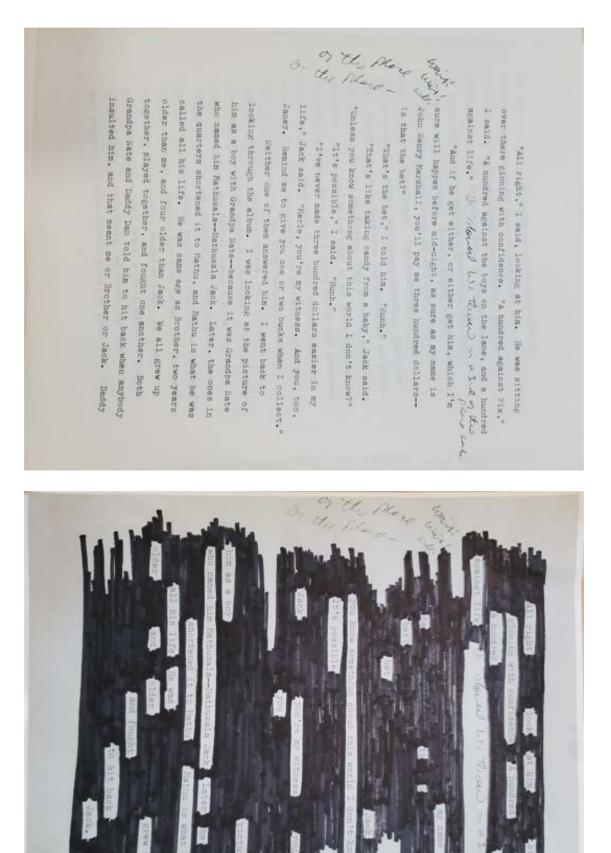
drawed his hand back and said, "Don't you tell Misses what Miss Jane said one of the niggers stepped forward and "No'm, we ain't going back there," Miss Jane said.

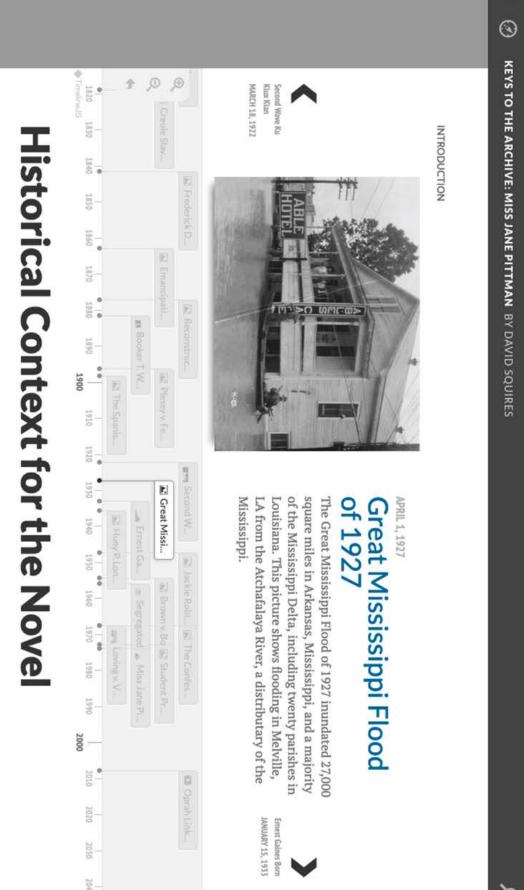
he say whall go back. y'all go back."

correspondence, production and publicity materials, translated editions, and reviews. The subseries reviews of the television-movie adaptation. The Miss Jane Pittman collection fills over one-hundred of Miss Jane Pittman materials tracks the novel's full lifecycle from an early, aborted draft to The Gaines Center's collections consist of various drafts of Gaines's published work, folders—about two-cubic feet—and consists mostly of manuscript and typescript drafts

"they manual 5 2 way and and and a share and up late the sound (lun-And shy had in Jean loter where fur the enter alman from the contony. She and paythe place HADOLD AT DES Stry mere not nearly to begin yet. Shy wan is - ind And the young Shew were only Auropera no port ing worth these ł The Shert Brought of Mer you fillows well about her at and . it more who and and the they due more a The Enter and no man anaci they have ment March She, this that man that C+ 01.9 0 themes 4mg These can there a ret manere 000 toportion a when Weeke nous that the and the freenened a 1 They a 1 Real . J 2000 Silver. Bung 1 1

you, 11d head right on back where you come from." You surays boy been doing all that walking, and we still in Income? belly with one of the rocks, but she made Ned get back. The white weeken daid, "Why you want go to Ohio?" Miss Jane said Med atepped forward to hit the nigger in the you ain't go'n do. If she say yould go hack, y'all go back." heard 'bout the proclamation?" drawed his hand hack and said. "Don't you tell Misson what anid. "He for spother lady the Basesh Milled yistidy." "They sin't got no more Secent," the white when sold. He had been used to besting on poor black people. ""That's your shild?" the white we saked Miss Jame. looked like one of the niggers used for drivers in the field. eyes at her like he still wanted to hit her. She and he lk indeed Willed his mame and his little hery sister, too." "Icas, I'm sure," the white worden said. "And if I was "Manner" Miss Jane screamed out. "No and this little Mins Jane said one of the niggers stopped forward and "No'n, we sin't going back there," Wiss Jane self. Miss June said she could see that nigger rolling his "To freedom," Miss Jame said. "Ain't you done "You free here," the white works said. "Ain't you done "Yes'm, but I don't believe it," Miss Jane said. "No, Minnes, I'm just twelve or thirtem," Miss Jane "They had some yistidy," Miss Jame said, "And they surv





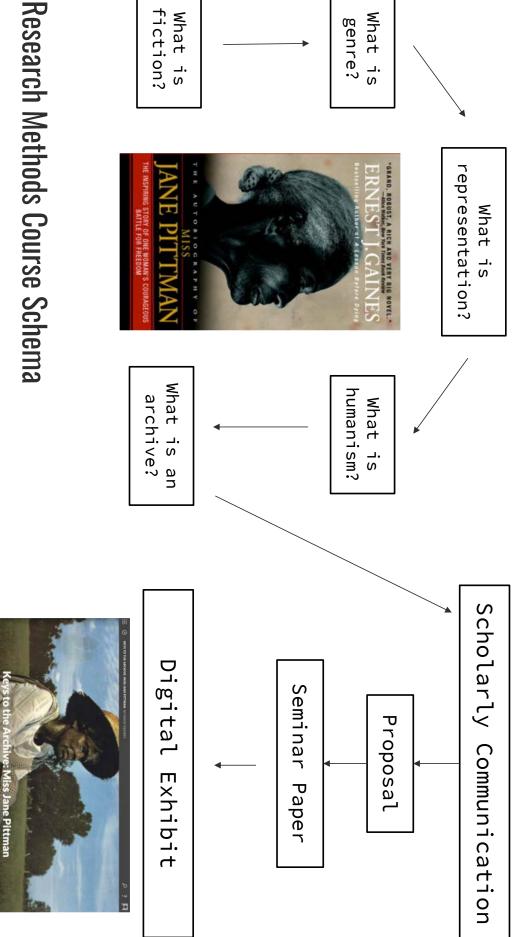
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Research Methods Course Schema



your books? "I don't write for any particular group, Mr. Stegner," I said. "I just try to write well and hope that somebody will buy it." He said, "Suppose someone held a gun to your head and asked you again: Who do you write for?" "Well," I said, "I probably would say I write for the black youth in the South. I hope that in my writing I can help them find themselves," "Suppose the gun were still there," he persisted, "and he asked you who else you wish to reach." My answer was the best I could offer then-or now: "In that case," I told him, "I would have to say I write also for the white youth of the South. To help them see that unless they know their neighbors of 300 vears, they know only half of their own history."	⁵³² THE GEORGIA REVIEW writers such as Turgenev, Chekhov, de Maupassant, Joyce, and others. These were the writers I had to study while a student at San Francisco State in the fifties. I wish that to works of black writers had also been included in the curriculum when I was in school, but none were. I under- "Well," I said, "I probably would say I write for the black youth in the South. I hope that in my writing I can help them find themselves."
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Interacy Projects in Southwest Louisiana Dr. Christine Weill Dr. Ryan Nelson Assistant Professor Dr. Ryan Nelson Dr. Holly Damico Dr. Holly Damico Associate Professor Department Head Communicative Disorders, College of the Liberal Arts Duisiana.edu Outstand

Investigating Twenty Years of Language and Literacy Projects in Southwest Louisiana



louisiana.edu



TEACHER SHORTAGE

According to Louisiana Workforce Commission data:

- Statewide, these data show an annual need of 4,003 with annual growth projected to be 124 positions each year over the next ten years (LaWorks.com, 2022).
 According to the Louisiana Department of Education Workforce Report:
- 37% of teachers will leave the profession within the first 5

years.



STUDY **TEACHER RETENTION**

Mixed methods study to investigate

VACANCY

- Orignal purpose, connections to purpose
- Contributing factors to possibly leaving the profession
- Ideas for pathways forward, preparation, and change
- Initial Study: 93 responses, 78% from Louisiana
- Larger district study in progress: >1500 responses

Goals of Study

- Educator-generated solutions
- Co-developed Action Plans
- Address Policy when Needed
- Sample: Lactation Policy

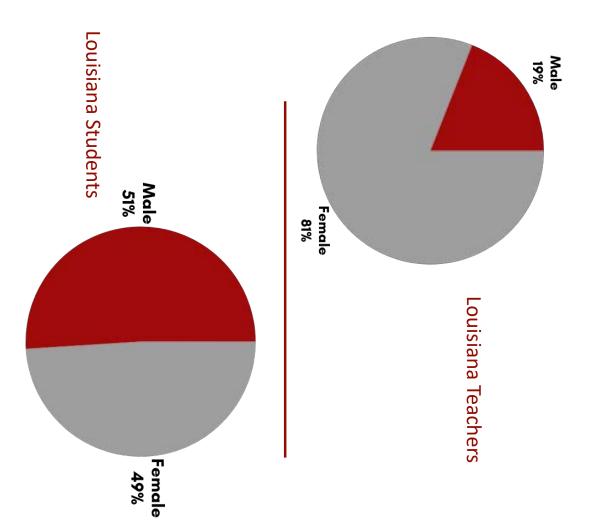


Teacher Retention

Who is choosing to teach?

Why are they choosing to teach?





5 Reasons for Original Purpose for Teaaching

"I also loved the schedule my children were really small at thetime and I wanted to be present for them."

"Finding a profession where I shared the same schedule as my son saved me from having to find/pay for child care."

"I also loved the schedule of a teacher as someone who would be a working mother."

> A theme found was that teachers find the schedule appealing and conducive to having a family.

> > "I was a single mother and decided that I wanted to have a schedule that would be best to raise a child."

"In addition to fitting my family schedule, I have a personal love of learning, was deeply involved in my own children's education."

"I have always wanted to become an educator because i wanted to make a difference. I also loved the schedule my children were really small at thetime and I wanted to be present for them."

Issue	Teacher's Selecting Issue as Major Contributing Factor	Teacher's Selecting Issue as Somewhat of a Contributing Factor	Total
Excessive workload	73%	25%	98%
Micromanagement from	You State	11. 11. 11. 11. 11. 11. 11. 11. 11. 11.	
District or State Administration	46%	49%	95%
Undervalued Professional capabilities or talents	53%	41%	94%
Too much focus on standardized testing and data	49%	43%	92%
Lack of respect for the teaching profession	58%	33%	81%
Physical and/or emotional stress	81%	29%	80%
Underpaid	53%	35%	88%
Lack of accountability or support for students' behavior	57%	29%	86%
Lack of autonomy (decision making power) in curriculum and instruction for students	55%	30%	85%

Top 5 Issues Contributing to Attrition

- Excessive Workload
- Micromanagement
- Undervalued capabilities
- Too much focus on standardized testing and data
- Lack of respect



- Lactation Policy
- Health benefit to mother and child

organization's p

It the

Policy

ed as a basis for

- Paid parental leave (return too early)
- Coverage issue Establish plan prior
- Space & break time
- Unsupportive policies make teachers choose

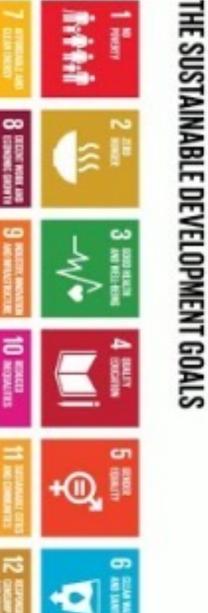




Dr. Stephanie P. Arceneaux, DNP, MSN, APRN, ANP-C College of Nursing and Health Sciences

Sustainability Development Faculty Research Grant

Make	Achieve	Five
Goal 11: Make cities and human settlements inclusive, safe, resilient, and sustainable.	Goal 5: Achieve gender equality and empower all women and girls.	Sustainable Goals addressed: Five & Eleven



Sustainable Development Goals



Education of Nursing Students on Human Trafficking Improves Knowledge

- Study Design- Quality Improvement Initiative
- Sample Convenience Sample of Senior Nursing Students; NURS 403 & NURS 418 cohorts
- Module with pretest/posttest assessments via PROTECT Intervention- Nursing students completed the HT Education Instrument in Moodle
- Outcome Measures- perceived knowledge of Human caring for HT victims. Trafficking (HT), actual knowledge of HT, and confidence in

Moodle Book

Human Trafficking Education Module

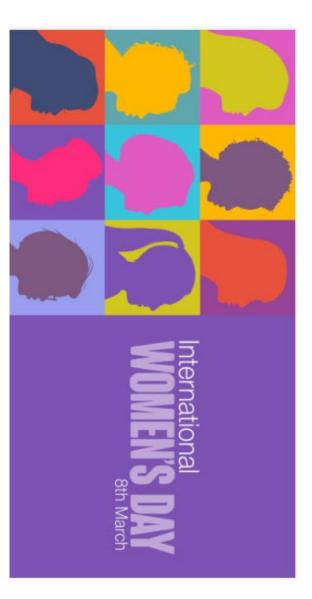


1. Introduction to HT Education -Audio Recording

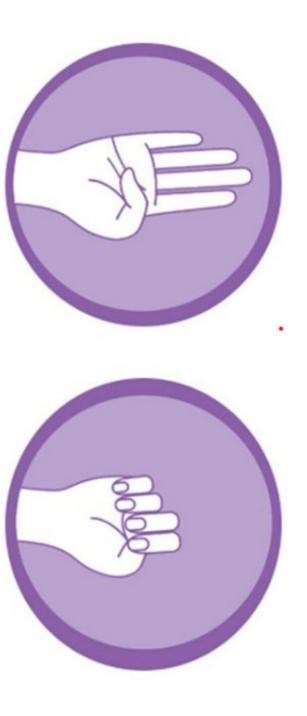


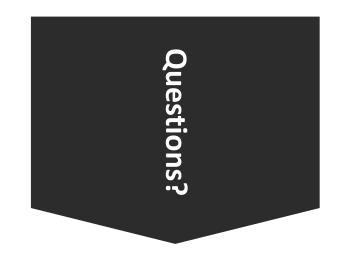
Data Analysis

International Women's Day- March 8



Hand Signal for Human Trafficking





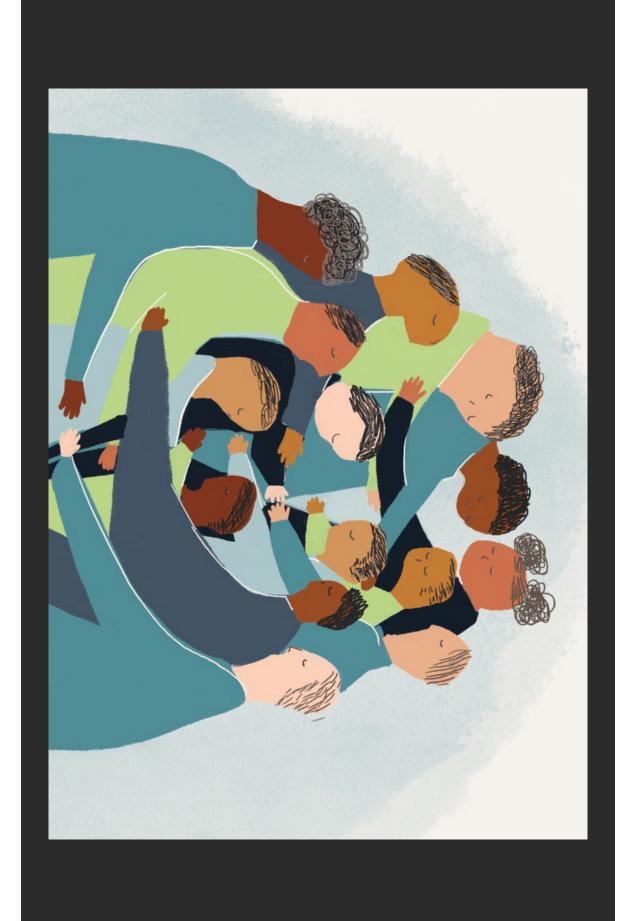


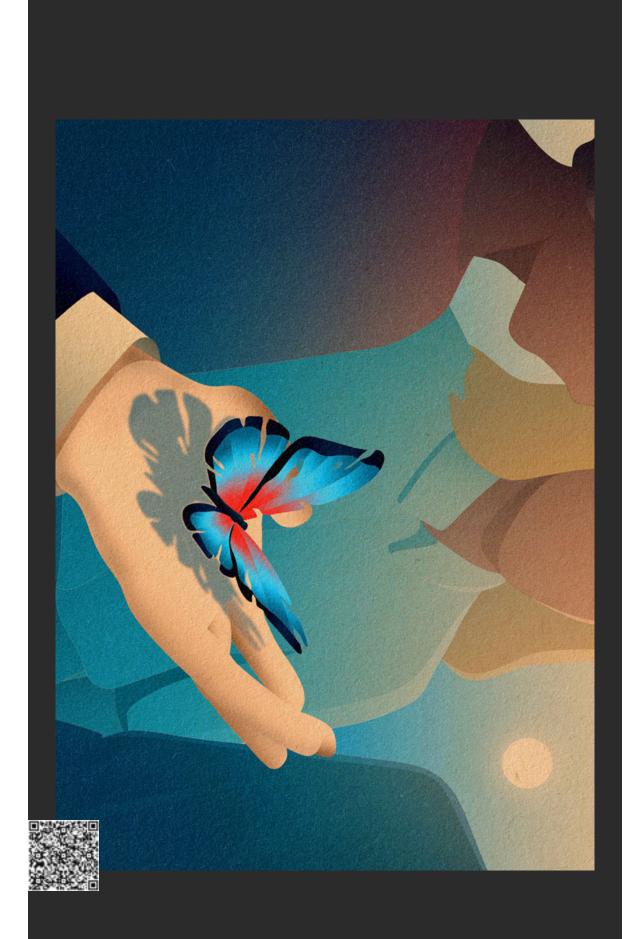


Promoting appetitive learning of consensual, empowered vulnerability:

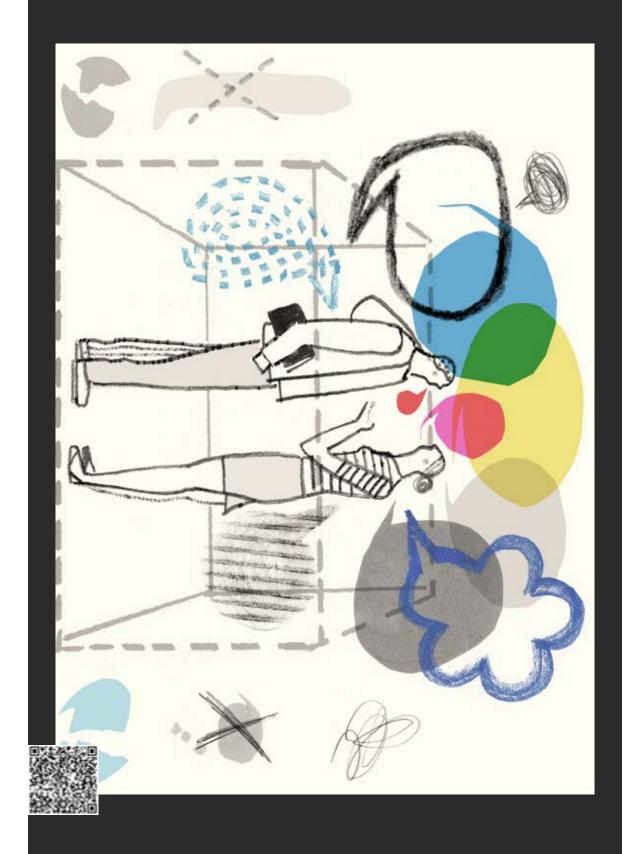
A contextual behavioral conceptualization of intimacy

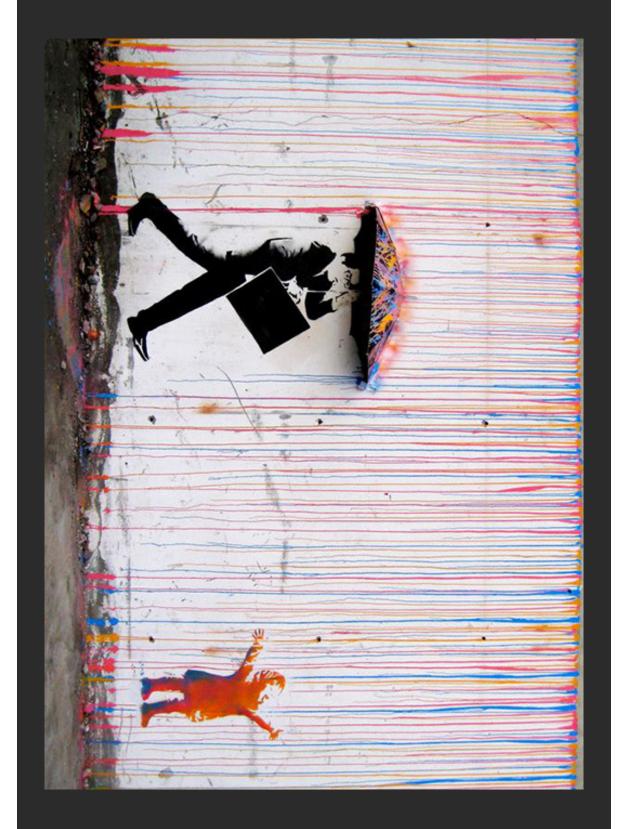
Emily K. Sandoz, Ph.D., University of Louisiana at Lafayette

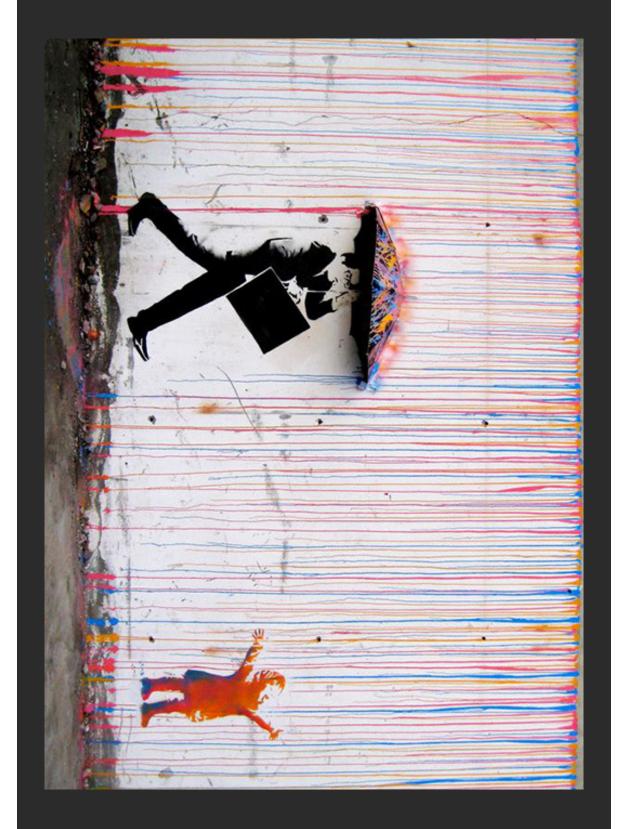


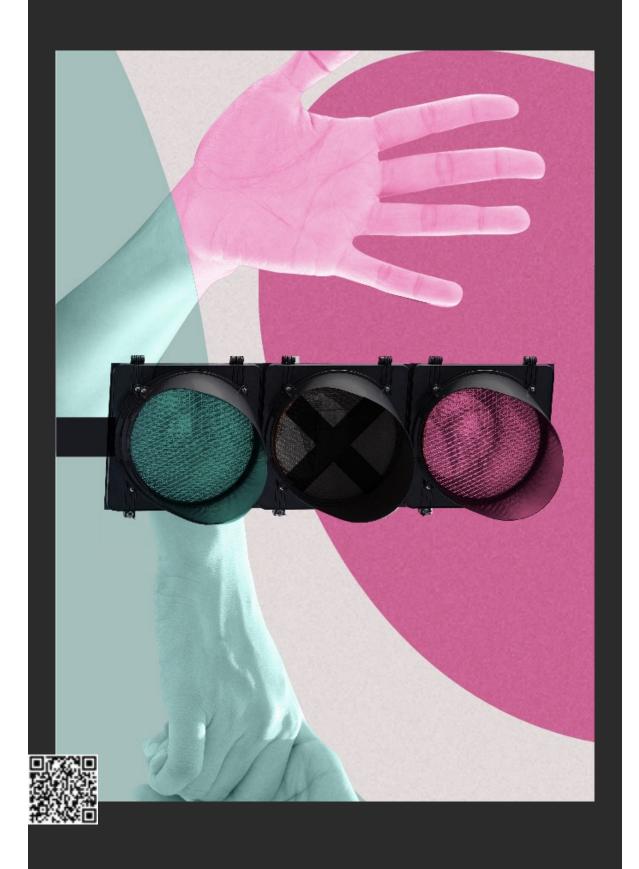


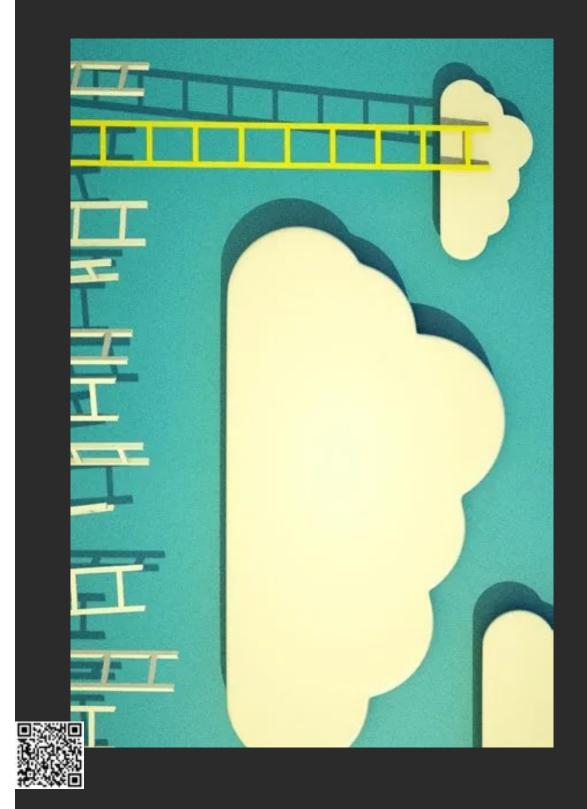


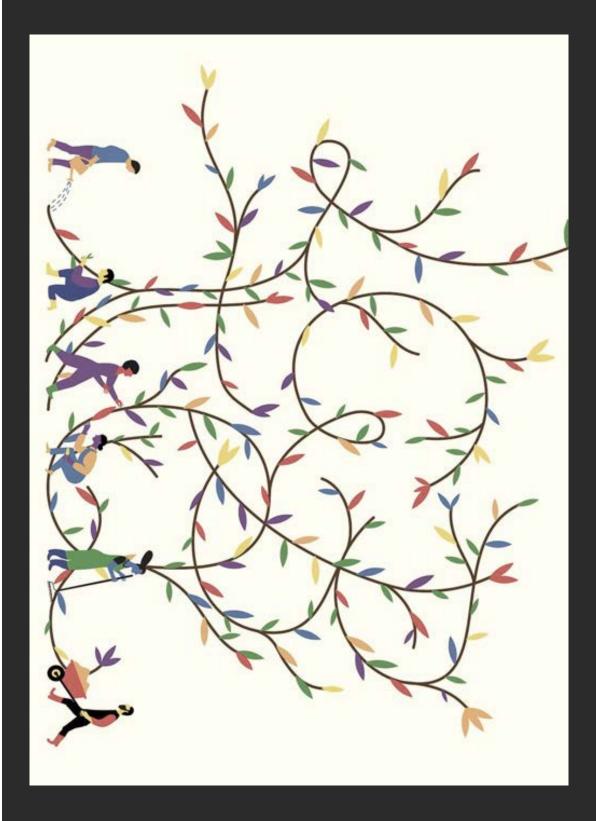




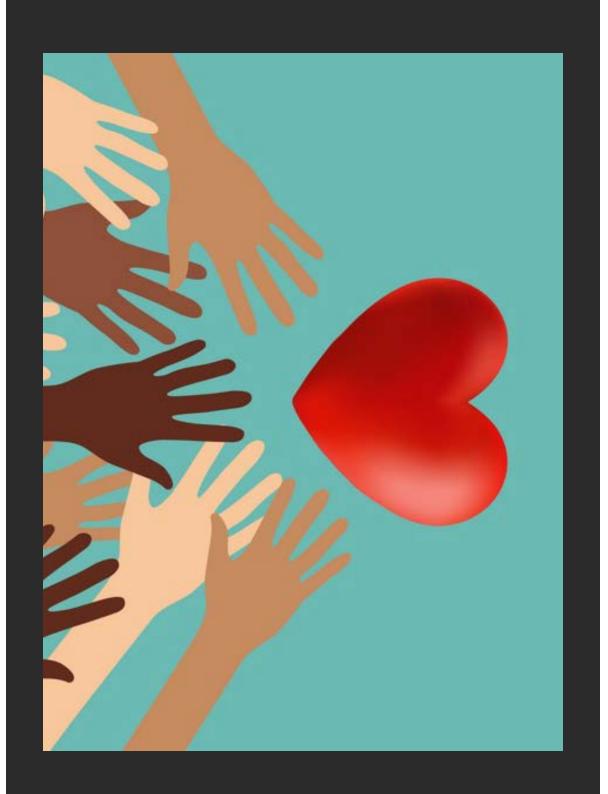


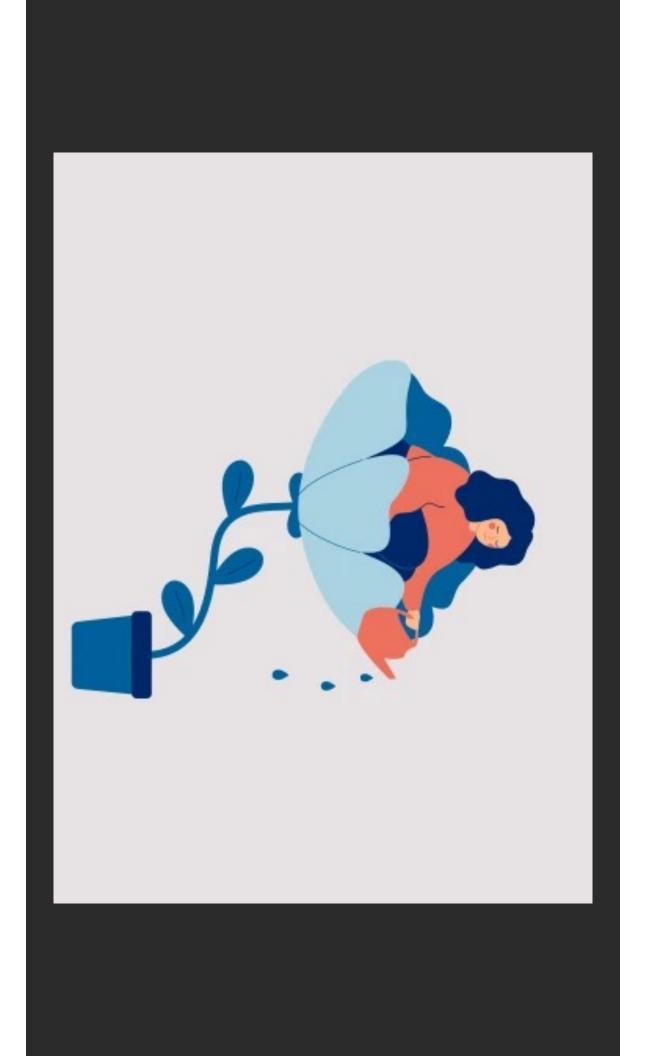


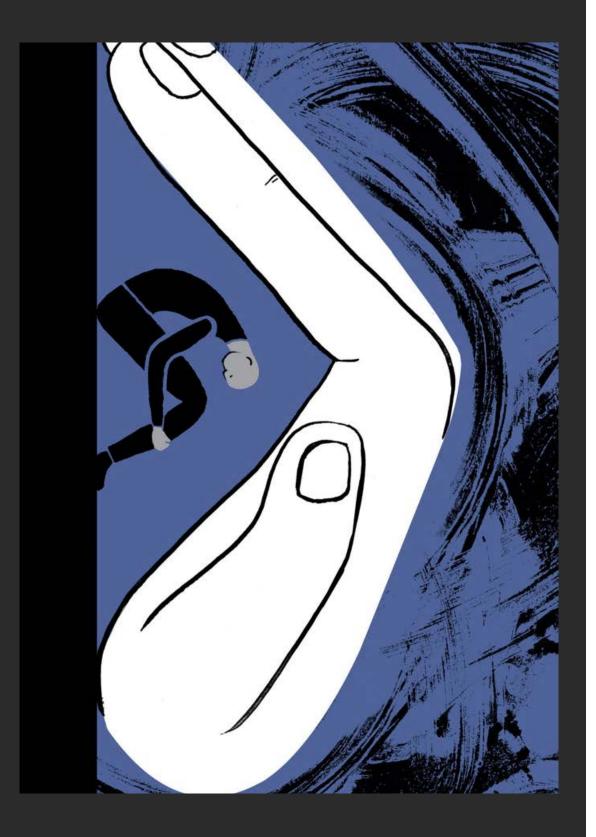






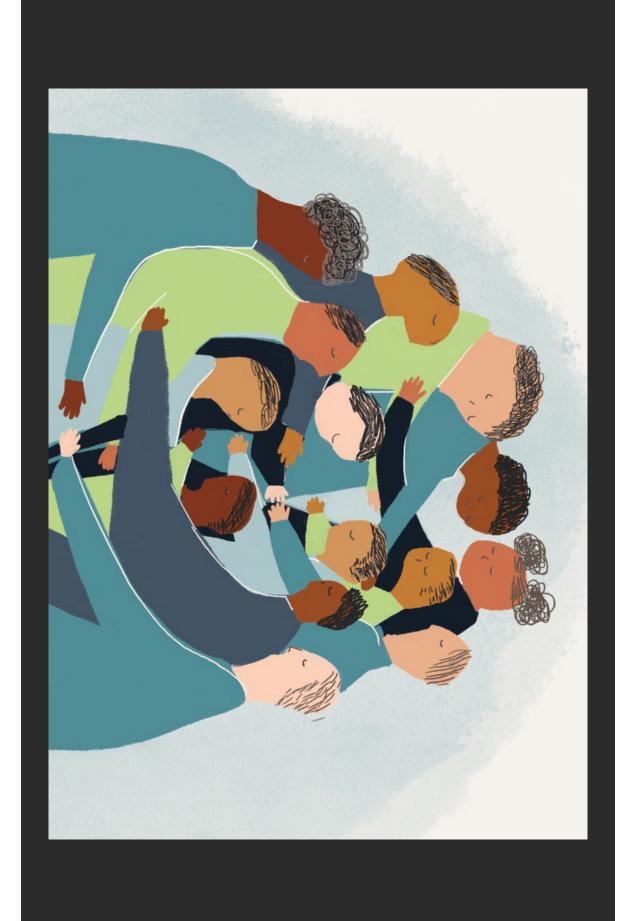














Promoting appetitive learning of consensual, empowered vulnerability:

A contextual behavioral conceptualization of intimacy

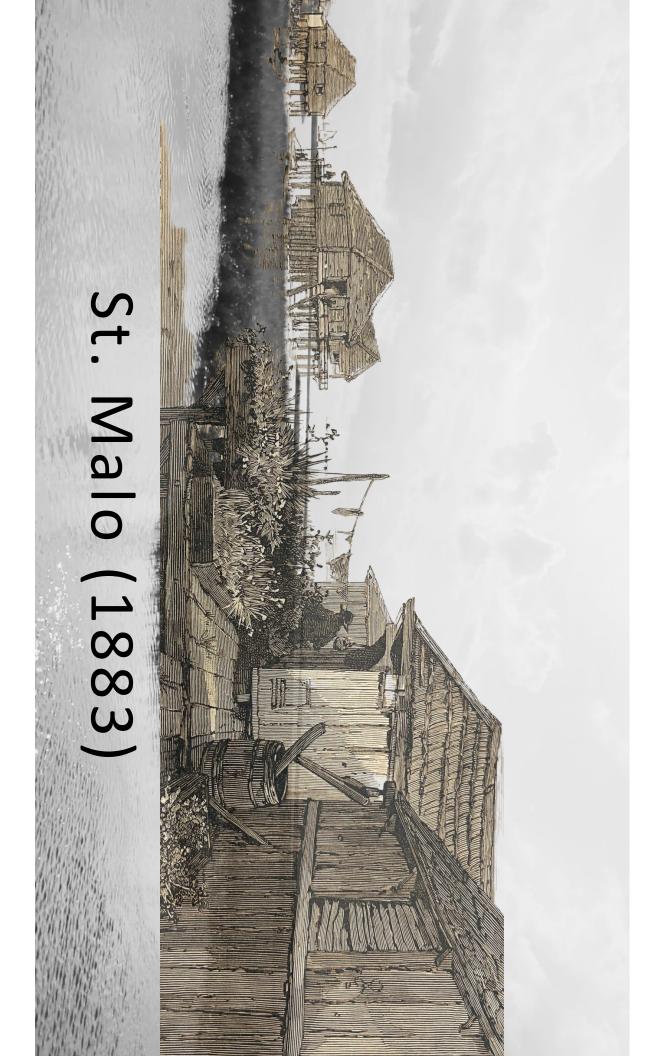
emily.sandoz@louisiana.edu

Louisiana Ingredients Filipino Food,

The History and Foodways of Filipinos in Louisiana From St. Malo to the Southern Garden:









ndigenous Filipino Dishes



Teaching the UN Sustainability Goals in Sociology 494: Food for Thought:

The Sociology of Food and Eating

Emily Blosser

Assistant Professor of Sociology

Food for Thought Podcast

UN Sustainability Goals: 2,3,5,10,13,15 Topics Covered:

- 1. Food Insecurity
- 2. Cajun Food and Identity
- 3. Food Waste and Climate Change
- 4. Food Systems and Climate Change
- Food, Mental Health, and Well-Being
- 6. Gender Inequality and Food
- 7. Prison and Food



Podcast Sessions

Scheduled Sessions:

- 1. Cajun Food and Identity
- 2. Prisons and Food
- 3. Gender Inequality and Food
- 4. Food Insecurity in Louisiana

Sessions I am Seeking Speakers for:

- 1. Food Waste and Climate Change
- 2. Food Systems and Climate Change
- 3. Food, Mental Health, and Well-Being



Assessment

Students reflect on the topics covered in podcasts through structured assignments and writing prompts.

Students discuss podcast topics in forums and through a final project.

A publication is planned for *Teaching Sociology* on using podcasts to teach the UN SDGs.



2024 FACULTY SUSTAINABLE DEVELOPMENT RESEARCH SUMMIT

THANK YOU!

	YU WANG	LING FEI	DAVID KIM	EMILY KANE	LIZ SKILTON	EMAD HABIB	JAMES ALBERT	HEATHER STONE
HOLLY DAMICO	Ryan Nelson	CHRISTINE WEILL	DAVID SQUIRES	Ayodeji Adegoke	Manyu Li	YUNG-HSING WU	LIANE HANCOCK	TORI FLINT
	Emily Blosser	RANDY GONZALES	EMILY SANDOZ	STEPHANIE ARCENEAUX	NATHAN ROBERTS	Amanda Mayeaux	AIMEE BARBER	MARIETTA ADAMS

Breakout Sessions & Lunch

Each of the previous presenters will find a corner - in the conference room, the Breakout sessions are in the LEED Center training room, the classroom or the lounge area.

Boxed lunches will be available in the Atrium

These announcements are pretty exciting and we will take a few **Closing Remarks will resume in here at 12:20** Please do not leave.

minutes to recognize 22 amazing graduate student researchers.



Creativity, Innovation, or Entrepreneurship

Call For Proposals: Research Grants Creativity, Innovation, Entrepreneurship Faculty and/or Graduate Students Submission Process *Resembles* SDG

Questions: josh.bendickson@louisiana.edu



More Sustainable Development Awards!

Call For Proposals – Round #3:

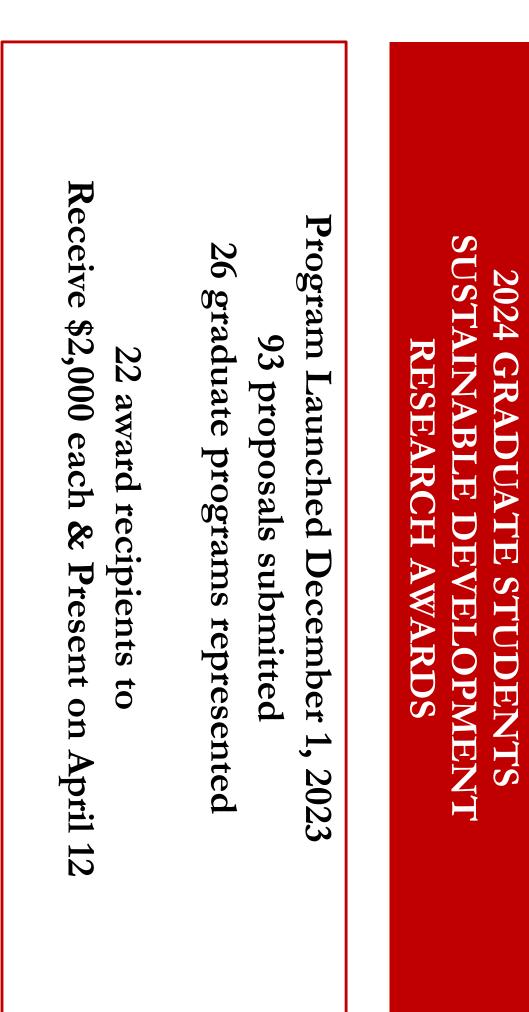
economic growth & social inclusion. Sustainable Development – environmental protection, More research awards for research related to

anyone (except Brian Boton) grad students, post-docs, undergraduate students, Open to all UL Lafayette researchers – faculty, staff,

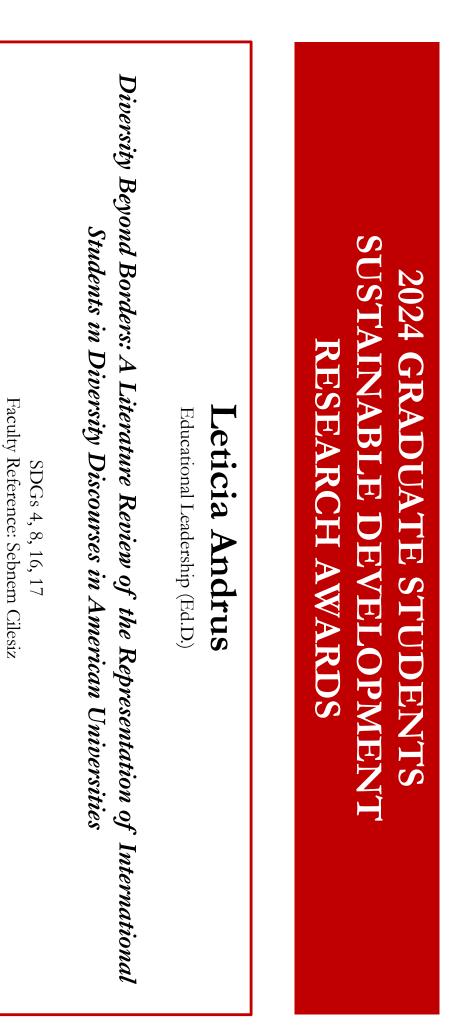
Application process will open April 15 - right after Josh's application window closes.

Questions: brian.bolton@louisiana.edu

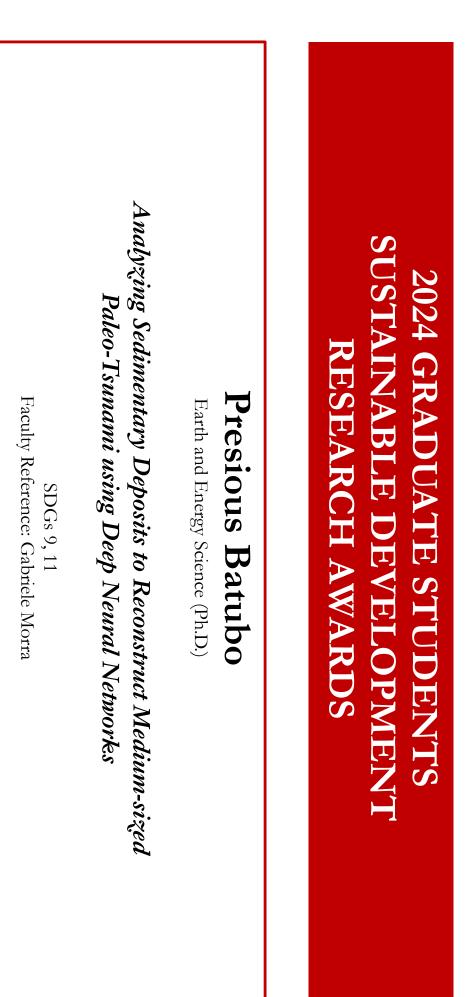






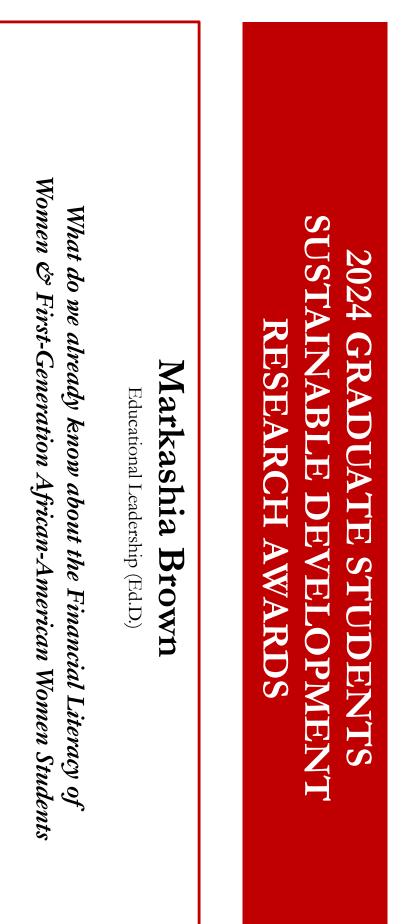








Faculty Reference: Carol Landry



SDGs 4, 5, 8, 10 Faculty Reference: Amanda Mayeaux

SUSTAINABLE DEVELOPMENT **2024 GRADUATE STUDENTS RESEARCH AWARDS**

Redeemer Buatsi

Communication (M.S.)

Reporting Rape in the United States - A Content Analysis of Media Coverage of Rape in the State of Louisiana

SDGs 3, 5, 16 Faculty Reference: Patricia Holmes

SUSTAINABLE DEVELOPMENT 2024 GRADUATE STUDENTS **RESEARCH AWARDS**

Kirsten Cases

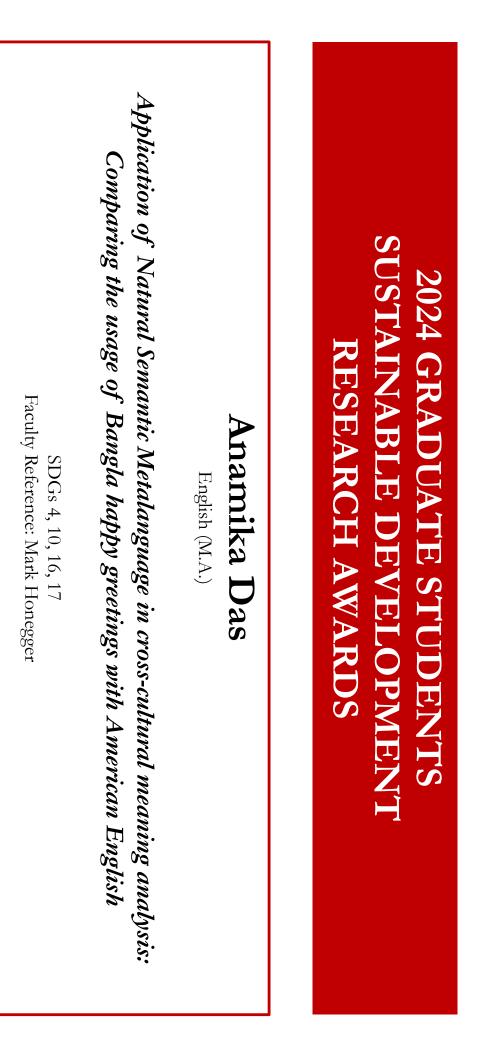
Architecture (M.Arch)

Reacclimating Neglected Infrastructure Through Stabilizing Carbon Dynamics

SDGs 7, 8, 9, 11, 12, 13, 15, 17 Faculty References: Corey Saft & Olivia Pontiff

How Do Post-Secondary Disability Service Accommodations SUSTAINABLE DEVELOPMENT 2024 GRADUATE STUDENTS in the U.S. Impact Educational Attainment **RESEARCH AWARDS** Allison Comeaux Educational Leadership (Ed.D.)

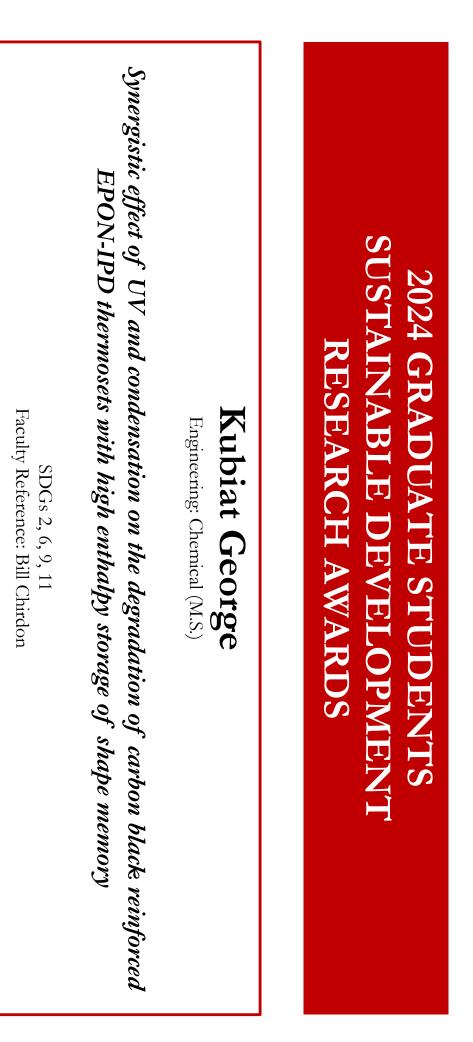
SDGs 4, 16 Faculty Reference: Amanda Mayeaux

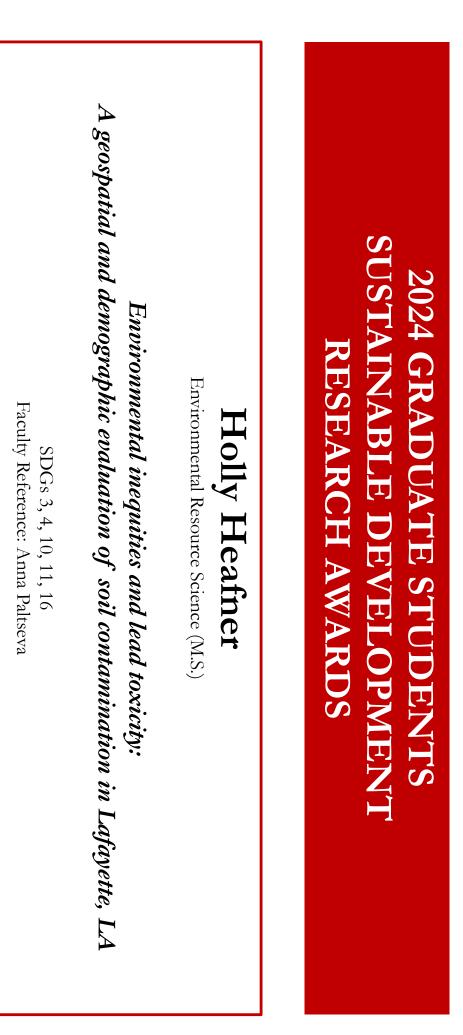


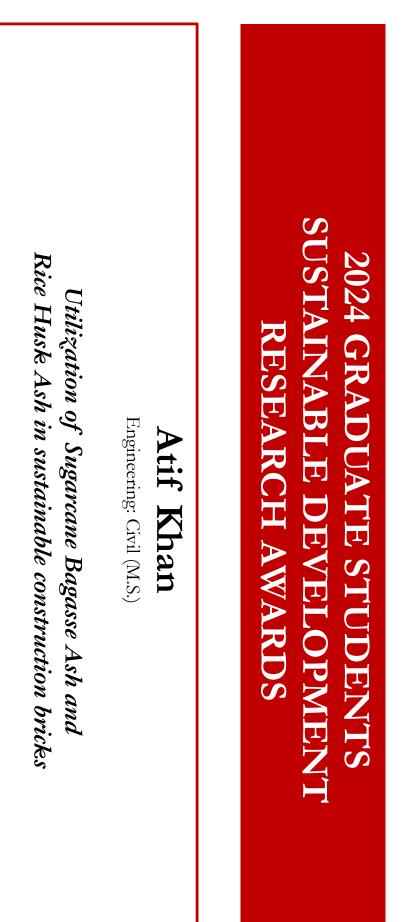
SUSTAINABLE DEVELOPMENT **2024 GRADUATE STUDENTS RESEARCH AWARDS** Shayan Ebrahimi Systems Engineering (Ph.D.)

Accelerating Decarbonization through Digital Twinning

Faculty Reference: Farzad Ferdowsi SDGs 7, 9, 12







SDGs 7, 8, 9, 11, 12 Faculty Reference: Md. Jamal Khattak

SUSTAINABLE DEVELOPMENT 2024 GRADUATE STUDENTS Does Automated Enforcement at Signalized Farooq Azam Khanzada **RESEARCH AWARDS** Systems Engineering (Ph.D.)

Does Automated Enforcement at Signalized Intersections Truly Enhance Safety?

SDGs 11 Faculty Reference: Xiaoduan Sun

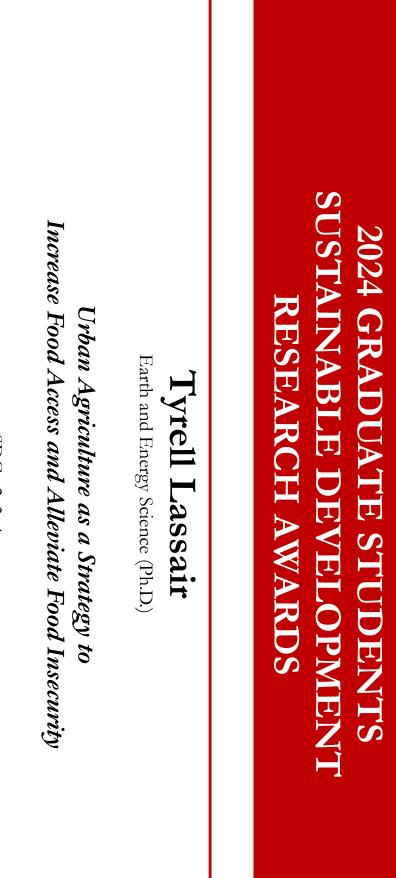
SUSTAINABLE DEVELOPMENT 2024 GRADUATE STUDENTS **RESEARCH AWARDS**

Deepak Jain Veerendra Kumar

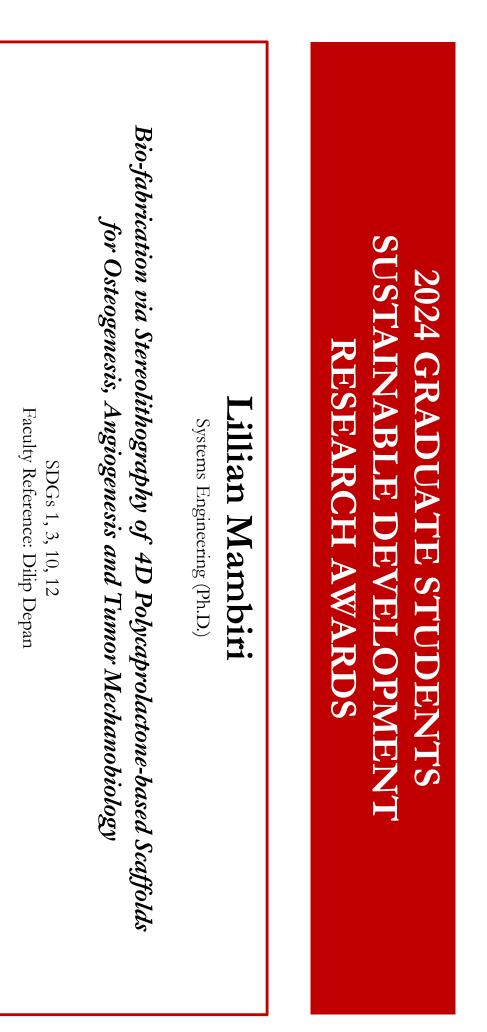
Systems Engineering (Ph.D.)

Advancing Soiling Loss Predictions in PV Systems with Enhanced Models

SDGs 7, 13 Faculty Reference: Terry Chambers



SDGs 2, 3, 4 Faculty Reference: Anna Paltseva





Faculty Reference: Jorge Villa

SUSTAINABLE DEVELOPMENT Impact of Childhood Adversity on Neuroinflammation: 2024 GRADUATE STUDENTS Exploring the Connections & Implications **RESEARCH AWARDS Tasnima Supty** Biology (M.S.)

SDGs 3, 4, 8, 11, 16 Faculty Reference: Karen Smith

Can Mediate the Effects of Empathy on Implicit Racial Bias SUSTAINABLE DEVELOPMENT **2024 GRADUATE STUDENTS** How Variations in Perspective Taking **RESEARCH AWARDS Jon-Patric Veal** Psychology (M.S.)

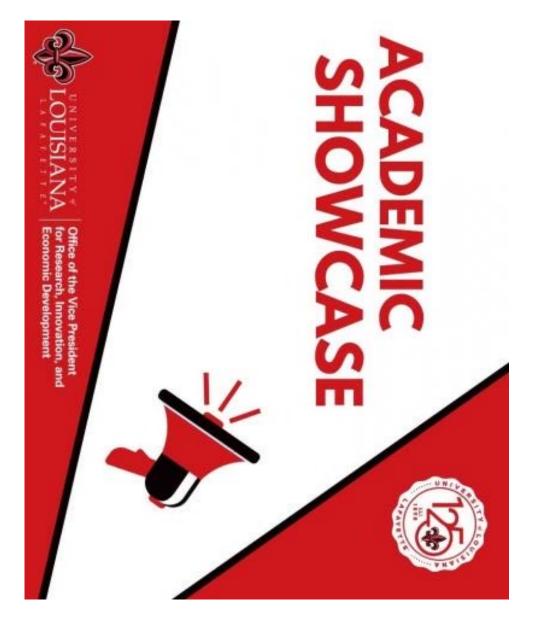
SDGs 10, 16 Faculty Reference: Emily Sandoz

SUSTAINABLE DEVELOPMENT 2024 GRADUATE STUDENTS **RESEARCH AWARDS Renee Vincent** English (Ph.D.)

Hurricane Katrina and Medical Inequity within Disaster When DNR Means 'Do Not Rescue':

SDGs 9, 11, 13, 15, 16, 17 Faculty Reference: David Squires





Student Union 8:30-11:30am Hallways & Atchafalaya Ballroom

March 12 Tuesday