



## Annual Report of Research Activities

Fiscal Year 2023

(September 1, 2022 – August 31, 2023)



Office of Research & Sponsored Programs Administration

January 31, 2024

LAMAR UNIVERSITY, BEAUMONT, TEXAS, USA

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The Office of Research and Sponsored Programs Administration (ORSPA) presents the annual report documenting the internal and external grant activities at Lamar University (LU) in Fiscal Year 2023 (FY23). The record documented in this report represents the research and grant efforts from September 1, 2022, to August 31, 2023. Research articles by LU faculty members published in refereed journals listed by major index systems in the calendar year 2023 are also reported.

## External Grant Efforts and Awarded Funds

In FY23, LU submitted ninety-four (94) external grant applications. The total requested funds were \$24,152,482 with awarded funds of \$7,370,661 for 49 applications. Table 1 compares external grant performance from FY19 to FY23. The received external funds in FY23 show a 23% growth compared to those of FY22. The number of submitted applications increased by 4% and the funded applications increased by 26%. As of January 15, 2024, there are 10 applications submitted in FY23 pending on funding decisions. The pending requests total \$3,370,12.

**Table 1: Comparison of External Grant Performance – FY19 to FY23**

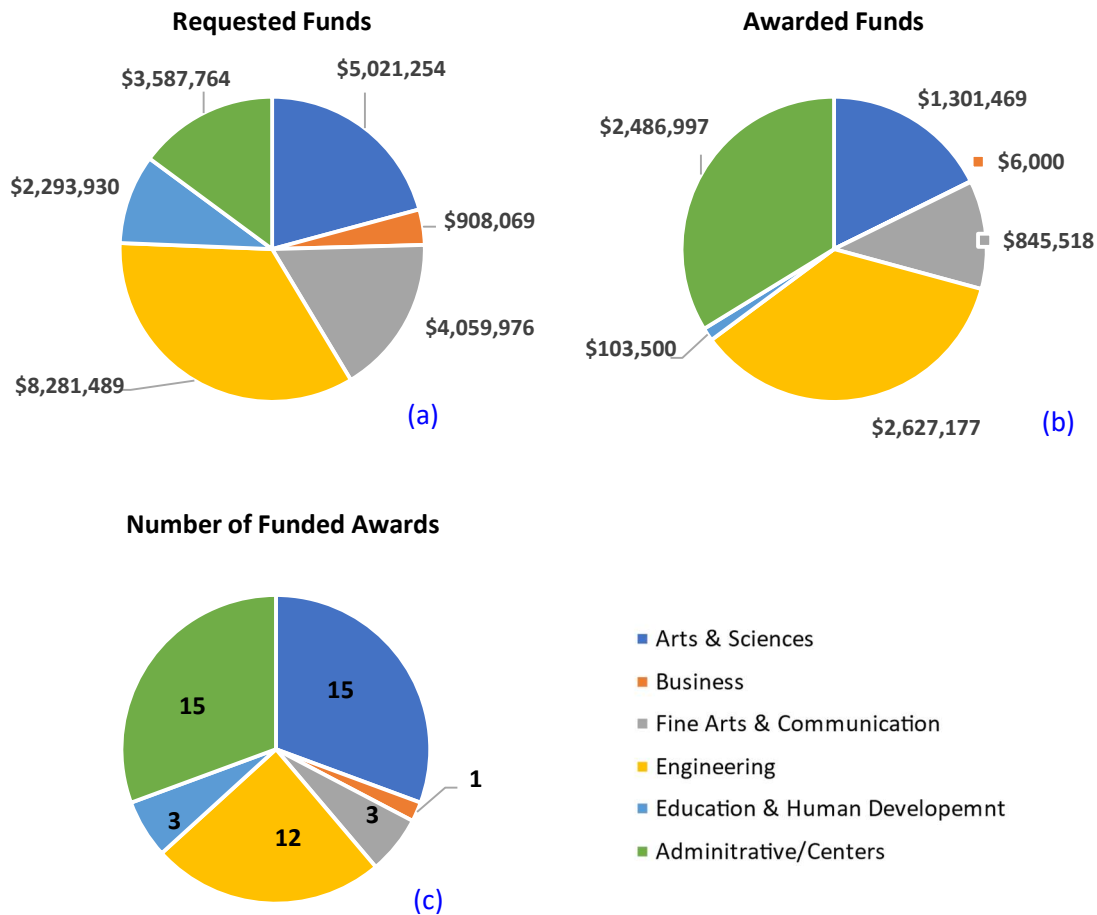
	FY19	FY20	FY21	FY22	FY23*
<b>No. of Submitted Proposals</b>	62	90	105	90	94
<b>No. of Awards</b>	29	38	42	39	49
<b>Awarded Revenue</b>	\$ 1,277,370	\$ 2,145,691	\$ 4,046,553	\$ 6,011,879	\$ 7,370,661

\*: As of January 15, 2024, there are 10 FY 23 applications totaling \$3,370,12 pending on funding decision.

## Grant Efforts and Awards by Academic College and Department

Figure 1 shows the amount of funds requested and received by the colleges and LU's administrative offices and research centers. The College of Engineering leads among the academic colleges in the amount of awarded funds (\$2.6M), followed by the interdisciplinary research centers and administrative offices (\$2.5M), the College of Arts and Sciences (\$1.3M), the College of Fine Arts and Communications (\$0.85M), the College of Education and Human Development (\$0.1M), and the College of Business (\$0.006M).

Table 2 shows the breakdown of external funds requested and received by the academic departments in FY23. Twenty-four (24) departments submitted external grant applications with various levels of success. Table 5 lists all submitted applications in FY23 by principal investigator (PI), department, college, funding agency, and award status (yes, no, or pending).



**Figure 1. Amount of external funds (a) requested, and (b) received by college and LU administrative offices/centers in FY23. Chart (c) shows the number of funded awards.**

## Internal Grant Awards and Departmental Research Activities

The internal grant awards supported by the Center for Advances in Port Management (CAPM), the Center for Midstream Management & Science (CMMS), and the Center for Resiliency (CfR) are shown in Table 3. These grant programs are intended to develop strategic research capabilities that will lead to future research projects funded by external sponsored programs. In summary, 66 projects were funded by LU internal grant programs, totaling \$1,835,728. The list of the internally supported projects is shown in Table 6.

Departmental research programs supported through faculty start-ups and research payments and by the academic colleges and research centers are listed in Table 4. The details of processed EPAF (electronic personnel action form) payments are listed in Table 7. In total, 40 payments were made, amounting to \$315,670.

**Table 2: Statistics of college/department efforts and received external grants in FY23**

<b>College</b>	<b>Department</b>	<b>No. of Proposals</b>	<b>Total Funds Requested</b>	<b>No. of Awards</b>	<b>Awarded Funds</b>
<b>Arts &amp; Sciences (27 projects)</b>	Applied Arts & Sciences	1	\$23,737	1	\$23,729
	Biology	4	\$279,161	3	\$99,161
	Chemistry	1	\$287,551	0	\$0
	Computer Science	2	\$317,999	1	\$108,000
	Mathematics	3	\$1,344,298	1	\$5,000
	Nursing	3	\$373,325	3	\$373,898
	Physics	6	\$1,619,314	2	\$465,275
	Social Work/Criminal Justice	7	\$775,869	4	\$226,406
<b>Business (4 projects)</b>	Information Systems	1	\$6,000	0	\$0
	Construction Management	3	\$902,069	1	\$6,000
<b>Education &amp; Human Development (5 projects)</b>	Pedagogy/Teacher Education	1	\$1,944,455	0	\$0
	Educational Leadership	2	\$93,475	2	\$93,500
	Nutrition, Hospitality & Human Services	1	\$246,000	0	\$0
	College	1	\$10,000	1	\$10,000
<b>Engineering (30 projects)</b>	Chemical/Biomolecular Engineering	10	\$2,932,064	7	\$2,012,812
	Civil/Environmental Engineering	5	\$1,962,728	2	\$113,662
	Electrical Engineering	2	\$529,450	0	\$0
	Industrial Engineering	5	\$1,566,612	3	\$500,703
	Mechanical Engineering	7	\$1,285,635	0	\$0
	College of Engineering	1	\$5,000	0	\$0
<b>Fine Arts and Communication (10 projects)</b>	Communications	1	\$729,133	1	\$729,133
	Deaf Studies & Deaf Education	7	\$2,741,464	1	\$27,000
	KVLU	1	\$89,385	1	\$89,385
	Speech & Hearing Sciences	1	\$499,994	0	\$0
<b>Admin/Centers (18 projects)</b>		18	\$3,587,764	15	\$2,486,997
<b>TOTAL</b>		<b>94</b>	<b>\$24,152,482</b>	<b>49</b>	<b>\$7,370,661</b>

**Table 3. Internal grant awards funded by LU Centers in FY23**

	<b>No. of Projects</b>	<b>Funded Amount</b>
CAPM	9	\$270,050
CfR	45	\$1,219,440
CMMS	12	\$346,238
<b>Total</b>	<b>66</b>	<b>\$1,835,728</b>

**Table 4. Departmental research supported by LU centers and academic colleges in FY23**

	<b>No. of EPAFs Processed</b>	<b>Funded Amount</b>
CAPM	2	\$37,190
CMMS	2	\$23,508
CoE	2	\$41,194
CoAS	21	\$84,778
CoB	13	\$129,000
<b>Total</b>	<b>40</b>	<b>\$315,670</b>

## Undergraduate Research

In FY23, the Office of Undergraduate Research (OUR) supported a total of 37 projects including 23 OUR awards and 14 Summer Undergraduate Research Fellowship (SURF) projects, with a funding level from \$1,000 (OUR grants) to \$6,500 (SURF) per project and \$500 travel support for students to present their work in conferences. The list of student projects and faculty mentors is shown in Table 8.

## Peer-reviewed Publications in Indexed Journals in 2023

In calendar year 2023, LU faculty members published 156 peer-reviewed articles in journals included in the Science Citation Index Expanded (SCIE), Social Sciences Citation Index (SSCI), Arts & Humanities Citation Index (AHCI) and Emerging Sources Citation Index (ESCI). The top 25 disciplines where the articles are published in are shown in Figure 2 (number of publications shown in each box). The full list of the publication is included in Appendix I.



**Figure 2. Top 25 disciplines of LU faculty's peer-reviewed publications in 2023**

**Table 5: List of college/department external grant efforts and awarded funds in FY23**

Dept	PI	Co-PIs	Project Title	Agency	Requested	Status
<b>College of Arts &amp; Sciences</b>						
Applied Arts & Sciences	Nordgren, Joseph		Joint Admission Medical Program (JAMP) GEER II	US Department of Education Pass through: Texas Higher Education Coordinating Board	\$23,737	Yes \$23,729
Biology	Hoch, Matthew		Fisheries Nursery Habitat Assessment of North Pleasure Island, USACE Dredge Placement Compartment #11.	S.A.L.T. Fisheries Research	\$20,000	Yes
Biology	Kubicek, Kole		Assessing Historical and Contemporary Distributions of Freshwater Fishes in the Neches River Watershed with Emphasis on Long-Term Trends and Monitoring for Mussel Host Fishes	Texas A&M University	\$16,161	Yes
Biology	Kucknoor, Ashwini		Jefferson County Beachwatch	Texas General Land Office	\$43,000	Yes
Biology	Vasefi, Seyedeh		mGluR5 and NMDA Receptor Crosstalk in Alzheimer's Disease	National Institutes of Health	\$200,000	No
Chemistry	Guo, Zhifo		Highly Zn(II)-Selective Turn On Fluorescent Sensor Based on Amidothioureas	The Welch Foundation	\$287,551	No
Computer Science	Kockara, Sinan		Virtual rotator cuff arthroscopic skill trainer	National Institute of Arthritis and Musculoskeletal and Skin Diseases division of NIH (subaward from Kitware, Inc.)	\$108,000	Yes
Computer Science	Zhang, Jing		Overcoming the Phenotyping Bottleneck for Rice Genomic Analysis through UAV Imaging and Machine Learning	National Science Foundation	\$209,999	Pending

Mathematics	Fowler, Jennifer	Felipe, L.; Marquez, A.; Vega Guzman, J.	Center for Community Coordination (CCC) in Engineering, Science, Technology, and Mathematics (ESTEMA)- a NSF HSI Community Coordination Center	National Science Foundation	\$716,040	No
Mathematics	Fowler, Jennifer		Draft: Increasing Hispanic Representation in the STEM workforce through affordable, accelerated, professional certifications.	National Science Foundation	\$623,258	No
Mathematics	Jensen-Vallin, Jacqueline		T.L.L. Temple Foundation Project	University of Texas - Austin	\$5,000	Yes
Nursing	Long, Elizabeth	Knight, S.; Hale, R.; White, K.	A program to promote nursing faculty professional development and enhance retention	Texas Higher Education Coordinating Board	\$185,647	Yes \$186,220
Nursing	Long, Elizabeth	Calloway, K.	GEER II-Nursing Innovation Grant Program - Nursing Grant Pipeline	US Department of Education Pass through: THECB	\$123,787	Yes
Nursing	Stinson, Cynthia		NSRP GEER II Funding, Clinical Space Updates	Texas Higher Education Coordinating Board	\$63,891	Yes
Physics	De La Madrid, Rafael	Cole, P.	Phase II Gadolinium Project: Gadolinium-loaded detectors for neutron detection in Dark Matter searches	US Department of Energy: Small Business Innovation Research	\$121,745	Pending
Physics	Cole, Philip		RUI: Probing the structure of excited baryons that decay through the omega-meson channel	National Science Foundation	\$301,810	Yes
Physics	Cole, Philip		Nuclear Science in Texas to Enhance and Advance Minorities (NuSTEAM)	US Department of Energy	\$288,167	Yes \$163,465
Physics	Romashets, Evgeny		SHINE: Interplanetary Magnetic Clouds of Toroidal Shapes with Non-Constant Alpha	National Science Foundation	\$229,161	No
Physics	Romashets, Evgeny		GEM: The surface currents on the magnetopause as a measure of energy input rate	National Science Foundation	\$235,515	No
Physics	Romashets, Evgeny		HGIO: Curved interplanetary flux ropes with non-linear force-free magnetic field	Space	\$442,916	No

Social Work/ Criminal Justice	Gage, Margot		Creating (and Erasing) Long Covid	Knology	\$149,997	Pending
Social Work/ Criminal Justice	Gage, Margot		Creating (and Erasing) Long COVID	National Science Foundation	\$100,000	No
Social Work/ Criminal Justice	Chang, Chiung		Community-driven Geospatial Approach to Improving Public Health Data Systems and Assessing Health Risks and Disparities in Beaumont-Port Arthur Gulf Communities	Gulf Research Program (PVAMU subaward)	\$131,197	Yes
Social Work/ Criminal Justice	Clavijo, Angela		Title IV-E Child Welfare Enhancement Program	Texas Department of Family and Protective Services	\$76,709	Yes
Social Work/ Criminal Justice	Gage, Margot		Historical women veterans and law enforcement officers in Texas	Summerlee Foundation	\$8,500	Yes
Social Work/ Criminal Justice	Tsado, Lucy		EAGER: Cyber Ready Rural, Toward Securing Rural Law Enforcement	National Science Foundation	\$299,466	No
Social Work/ Criminal Justice	Tsado, Lucy		Cyber Ready Rural	Texas A&M Engineering Experiment Station (TEES)	\$10,000	Yes

### College of Business

Construction Management	Hwang, Seokyon	Lou, H.; Tokgoz, B.; Zhou, J.	C4-Learning: Building a Career-Ready Midstream STEM Workforce through Career-Conscious and Career-Competent Learning.	National Science Foundation	\$737,090	No
Construction Management	Luo, Zhe		ERI: BLOOM: Bayesian Learning Objective-oriented Observational Method for Integrated Design and Construction of Staged Excavations	National Science Foundation	\$99,999	No



Construction Management	Luo, Zhe	Liu, X.	Synthesis: Pavement Widening Best Practices	Texas Department of Transportation	\$64,980	Pending
Information Systems	Nelson, Melinda	Touchet, J.	TIEC study abroad for College of Business	NSF National Science Foundation Pass Through: TERC	\$6,000	Yes

### College of Education & Human Development

College of Education	Spina, Robert		Educator Planning Grant	Texas Higher Education Coordinating Board	\$10,000	Yes
Educational Leadership	Slaughter, Jody		AT&T Lamar University Grant	AT&T	\$49,975	Yes \$50,000
Educational Leadership	Slaughter, Jody		GEER II Funding	TSUS	\$43,500	Yes
Nutrition, Hospitality & Human Services	Killough, Jill		Lamar University Interdisciplinary Fellowship & Training for Underrepresented Professionals in Nutrition (LIFT UP)	National Institute of Food and Agriculture	\$246,000	No
Teacher Education	Singh, Mamta	Hernandez, A.	Embracing Individual Paths and Unique Backgrounds	US Department of Education	\$1,944,455	No

### College of Engineering

Chemical Engineering	Benson, Tracy		Evaluation of Odorants for H2 Service	Pipeline Research Council International	\$74,956	Yes
Chemical Engineering	Benson, Tracy	Chen, D.	Texas Louisiana Carbon Management Community (TXLACMC)	US Department of Energy	\$190,536	Yes
Chemical Engineering	Benson, Tracy		Community Benefit Plan for Houston Direct Air Capture Hub	US Department of Energy	\$74,956	Yes
Chemical Engineering	Cai, Tianxing		Creating Your Own Industrial Control and Information Systems	Lamar Research Foundation	\$12,600	Yes \$5,800

Chemical Engineering	Chen, Daniel	Sargsyan, G.	C1H2 Extension Service for Southeast Texas Sustainable Economic Development (C1H2SET)	US Department of Commerce	\$188,032	No
Chemical Engineering	Lou, Helen	Roden, T.; Liu, X.; Cai, T.; Richmond, P.	Sul Ross: Midstream Critical Manufacturing Industry Cybersecurity Hub	US Department of Energy	\$600,000	Yes
Chemical Engineering	Lou, Helen	Zhang, X.; Bandyopadhyay, K.; Zhang, J.; Richmond, P.	Southeast Texas Data Analytics and Cybersecurity for Energy Supply Chain Resilience Project	US Department of Energy	\$766,667	Yes
Chemical Engineering	Lou, Helen	Richmond, P.; Liu, X.; Cai, T.; Tsado, L.	CyberTraining: Pilot: Interdisciplinary Cybersecurity Education to Support Critical Energy and Chemical Infrastructure	National Science Foundation	\$299,897	Yes
Chemical Engineering	Jeffryes, Clayton	Lou, H.	No-Heat Low Carbon Emissions Manufacture of Ammonia	US Department of Energy	\$599,420	Pending
Chemical Engineering	Xu, Qiang		Multiscale Modeling for the New Conceptual Design of Emission-free Maritime Transportation Fueled by LNG	American Chemical Society	\$125,000	Pending
Civil Engineering	Brake, Nicholas		Southeast Texas Flood Coordination Study - Regional Flood Sensor System	Texas General Land Office	\$799,852	Pending
Civil Engineering	Hernandez, Annette	Curry, J., Tcheslavski, G.; Uddameri, V.	S-STEM: creating efficient, connected highly integrated systems by tapping early college high school students (ECHIS)2	National Science Foundation	\$969,215	No
Civil Engineering	Selvaratnam, Thinesh		A Carbon Capture System for Algae Cultivation and Bioproducts Production using Hybrid Solar Lighting	National Science Foundation	\$68,662	Yes
Civil Engineering	Uddameri, Venkatesh	Uddameri, E.	Assessment of Texas coastal watershed delineations using high-resolution data Sources and Other Methods to Improve Hydrology Data sets for Flood Risk Analysis	University of Texas - Rio Grande Valley	\$45,000	Yes
Civil Engineering	Wu, Xing	Li, Y.	Develop Crash Modification Factors for Super 2 Highways	Texas Department of Transportation	\$79,999	No

College of Engineering	Strahan, Haley		2022-2023 Senior Design Project	Lamar Research Foundation	\$5,000	No
Electrical Engineering	Tcheslavski, Gleb	Vasefi, M.	RUI: CRCNS Research Proposal: An EEG-based study of human perception of a dynamically varying color; linear modeling and "instantaneous" approaches	National Science Foundation	\$403,681	No
Electrical Engineering	Tcheslavski, Gleb	Vasefi, M.; Felipe, L.	Developing a wearable system for detecting auditory hallucinations from EEG	US Department of Defense	\$125,769	Pending
Industrial Engineering	Bradley, Robert	Fan, X.; Vasefi, S.; Bernazzani, P.; Henry, J.	MRI: Track #1 Acquisition of a Two-Photon 3D Stereolithography System	National Science Foundation	\$817,338	No
Industrial Engineering	Li, Yueqing	Tcheslavski, G.; Jordan, S.; Felipe, L.; Vasefi, S.	NSF MRI (Track I): Acquisition of a Functional Near-Infrared Spectroscopy (fNIRS) System to Enhance Research and Education at Lamar University	National Science Foundation	\$263,157	No
Industrial Engineering	Craig, Brian	Curry, J.	2022/2023 ABS Bureau Safety Culture Survey	American Bureau of Shipping	\$70,000	Yes
Industrial Engineering	Curry, James		Using Safety Culture-related Assessment Results to Enhance the Effectiveness of Safety Management Systems	American Bureau of Shipping	\$257,067	Yes
Industrial Engineering	Hamidi, Maryam		GULF INTRACOASTAL WATERWAY - AUTOMATIC IDENTIFICATION SYSTEM APPLICATION	Texas Dept. Of Transportation	\$159,050	Yes \$173,636
Mechanical Engineering	Doranga, Sushil		Extreme Temperature and Vibration Tolerant Electronic Systems	National Science Foundation	\$109,744	No
Mechanical Engineering	Fan, Xuejun		RCN-SC-Co-design of Electronic Packaging and Heterogeneous Integration (CEPHI)	National Science Foundation	\$100,000	Pending
Mechanical Engineering	Fan, Zhe		Effects of chemical elements on corrosion of high-entropy alloys	The Welch Foundation	\$299,926	No
Mechanical Engineering	He, Ping	Bahrim, C.; Yoo, H.; Zhang, J.; Hwang, S.; Fan, Z.; Lou, H.	REU Site: Enriching the Undergraduate Research Experience in Oil and Gas Midstream Industry	National Science Foundation	\$394,030	No

Mechanical Engineering	He, Ping		ERI: Developing 2D/3D Continuum Simulation Algorithms for Two-phase Partially Miscible or Fully Immiscible Fluid Flows with Phase Change	National Science Foundation	\$98,212	No
Mechanical Engineering	Yao, Chun-Wei		RUI: Corrosion and Tribocorrosion Resistance of Superhydrophobic Surfaces	National Science Foundation	\$83,734	No
Mechanical Engineering	Yavas, Denizhan		Engineering Research Initiation (ERI): Structural Integrity of Fiber-Reinforced Ultra-High-Performance Engineering Plastic Composites Fabricated by Additive Manufacturing	National Science Foundation	\$199,989	No

### College of Fine Arts & Communication

Communications	DeMars, Tony		2022 LUTV-7 Upgrade	City of Beaumont (PEG Funding)	\$729,133	Yes
Deaf Studies and Deaf Ed	Buchanan, Beverly	Makki, K.; Zhang, J.; Li, Y.	Endangered Sign Language Project	National Science Foundation	\$413,262	No
Deaf Studies and Deaf Ed	Buchanan, Beverly		Digital Collection of an Endangered Sign Language: Maritime Sign Language	Legacy Material Grants	\$6,717	No
Deaf Studies and Deaf Ed	Clark, Diane		Improving Undergraduate STEM Education: Education and Human Resources	NSF National Science Foundation Pass Through: TERC	\$27,000	Yes
Deaf Studies and Deaf Ed	Greene, Ashley	Hauschildt, S.; Johnson, B.	Training Deaf Blind Interveners: Implementation, Design, and Evaluation of an Interactive Training Program	US Department of Education	\$1,073,250	Pending
Deaf Studies and Deaf Ed	Greene, Ashley	Clark, M.	IDEAL: Implementing Data - and Evidence-based Actions in Leadership.	US Department of Education	\$942,731	No
Deaf Studies and Deaf Ed	Musyoka, Millicent		USAID Rwanda	US AID Rwanda	\$189,785	No
Deaf Studies and Deaf Ed	Musyoka, Millicent	Doe, R.	Deaf Education Teacher Experiences and Interactions During And Post Covid-19 School Lock Down	The Spencer Foundation	\$48,719	No

KVLU Radio	Balentine, Byron		Corporation for Public Broadcasting Community Service Grant FY2023	CPB Community Service Grant	\$89,385	Yes
Speech and Hearing Services	Morris, Lekeitha		Success with Stories: A Transformative Approach to Parent Training	The Spencer Foundation	\$499,994	No
<b>Administrative Offices &amp; Centers</b>						
Center for Resiliency	Haselbach, Liv		CMP-Cycle 29 Project of Special Merit Coastwide Real Time Monitoring Program for Texas Inland Bays	Texas General Land Office	\$483,648	No
Center for Resiliency	Haselbach, Liv	Lin, S.; Cai, T.; Jeffryes, C.; Qian, Q.; Brake, N.; Hoch, M.	Southeast Texas Urban Integrated Field Laboratories: equitable solutions for communities caught between floods and air pollution	US Department of Energy	\$1,000,000	Yes
Center for Resiliency	Qian, Qin	Lou, H.	Enhancing resilience of energy and water supply	US Department of Commerce: Texas A&M University - Sea Grant	\$105,000	Yes
Center for Water & Air Quality	Jeffryes, Clayton	Haselbach, L.	FMRG ECO: Molecular Engineering of Chemo-Physical Inhibition Pathways to Advance Green Anti-Corrosion Coating	National Science Foundation	\$399,837	No
Center for Water & Air Quality	Jeffryes, Clayton	Selvaratnam, T.; Haselbach, L.	PARTNERSHIP: Utilization of Agricultural Waste (Olive and Grape Pomaces) to Improve the Service Life and Sustainability of Roadways	US Department of Agriculture (Subaward: CHICO state)	\$150,000	Yes
Center for Water & Air Quality	Jeffryes, Clayton		Conversion of Ammonium Sulfites to Ammonium Sulfate by Air	Sulfurchem LLC	\$14,000	Yes
Digital Learning	Kang, Kye Hong	Jensen-Vallin, J.	On-demand AI Tutor: Humans in The Loop	None	\$50,000	No
Enrollment Mgmt & Marketing	Mayer, Deidra		Project CARDS (Cardinal Access, Resources and Diversity Services)	Student Success Acceleration Program- Implementation program	\$250,000 \$119,193	Yes

Community Relation	Titus, Freddie		VITA Program, Super Tax Day	Lamar Research Foundation Entergy	\$23,000	Yes
Honors College	Thibodeaux, Tilisa	Wang, S.; Andrei, S.; Xu, Q.	Texas Workforce Commission Governor's Merit Summer Program	Texas Workforce Commission	\$99,997	Yes
McNair Scholars	Comer, Pamela	Bahrim, P.; Thibodeaux, T.	McNair Scholars Program	US Department of Education	\$259,198	Yes
Midstream Management Science	Zhang, Jing	Hamidi, M.	Machine Learning-based Anomaly Detection for Pump Monitoring Using Auditory Data	Buckeye Partners, L.P.	\$100,000	Yes
ORSPA	Lin, Jerry		TSUS and Quanta Services, Incorporated (QS) Partnership	TSUS	\$225,000	yes
Spindletop Gladys City	Hoeft, Rayanna		BCVB Hot Tax Grant	Lamar Research Foundation	\$42,476	Yes \$9,000
Student Health Center	Gray, Shawn		2022-2023 College/University challenge vaccine assistance	Alana's Foundation	\$1,500	Yes
TMACSE	Jones, Gavin		Moisture-Sensitive Package Root-Cause Study: Multiphysics Modeling and Experiment	Texas Instruments	\$65,000	Yes
TMACSE	Jones, Gavin		America's Cutting Edge (ACE) Machine Tool Workforce Development Program	Texas A&M Engineering Experiment Station (TEES)	\$84,109	Yes
TMACSE	Jones, Gavin		TMAC	University of Texas - Arlington	\$234,999	Yes \$235,000

**Table 6: List of internal research grants awarded in FY23**

Department	Investigator	Co-PIs	Project Title	Sponsor	Award
Art	Meeks, Donna M	Fedorchenko, X.; Hyatt, J.; Elestwani, M.	Bounce Back2: Artmaking and Resiliency	CfR	\$17,200
Biology	Armacost, James		Effect of gull abundance on human pathogen concentrations in seawater along Jefferson County beaches	CfR	\$4,290
Biology	Hoch, Matthew	Kubicek, K.	Importance of shallow dredge material lagoon habitat to resiliency and sustainability of fisheries of commercial and recreational valued	CfR	\$24,675
Biology	Hoch, Matthew	Kubicek, K.; Harden, G.; Luo, Z.; Liu, X.; McCollough, J.; Qian, Q.	Coastal Sociological-Ecological Restoration Group (CSERG) & Pilot Project: North Pleasure Island Reconstruction Continuation	CfR	\$50,979
Biology	Kucknoor, Ashwini		Microbial source tracking and pathogen identification before and after storm-water surges in Jefferson County beaches	CfR	\$21,140
Biology	Lian, Ian		Development of molecular agglutination assay for rapid and low-cost pathogen detection platform	CfR	\$6,000
Biology	Pyne, Matthew		Survey of water quality and macrobenthos in the tidal Neches River	CfR	\$14,500
Biology	Vasefi, Maryam		Generate intervention for disaster resilience regarding cognitive decline progression	CfR	\$19,156
Center for Resiliency	Haselbach, Liv	Brake, N.; Qian, Q.; Wu, X.; Selvaratnam, T.; Kim, Y.; Liu, X.; Kruger, J.	Flood Coordination Study FY23	CfR	\$300,000
Chemical Engineering	Cai, Tianxing	Lou, H.	Design and development of an IT/OT emerged experiment platform and testbed for energy infrastructure cybersecurity enhancement	CMMS	\$34,000
Chemical Engineering	Chen, Daniel	Sargsyan, G.	Evaluating various LNG plant electrification options	CMMS	\$34,000
Chemical Engineering	Chen, Daniel		Control of an Optimized Natural Gas Fractionation Train (finalization)	CMMS	\$10,000
Chemical Engineering	Jeffryes, Clayton		Development of a rapid, inexpensive, field measurement to reduce process stream demulsification costs	CMMS	\$33,991
Chemical Engineering	Lin, Sidney		Protection of Marine Steel Structures by Calcareous Electrodeposition	CAPM	\$30,000
Chemical Engineering	Xu, Qiang	Wang, S.	Optimization for natural gas liuefaction with helium recovery for LNG industry	CMMS	\$34,000
Chemistry	Wei, Suying	Chandrasekaran,P.; Gunaydin-Sen, O.; Twagirayezu, S.	Quantifying chemical contaminants in Southeast Texas surface water bodies	CfR	\$23,000

Civil Engineering	Wu, Xing		AIS-Data based waterway resiliency modeling and analysis	CfR	\$15,016
Civil Engineering	Wu, Xing	Uddameri, V.; Kruger, J.	Subsidence implications on pipeline Infrastructure in Southeast Texas	CMMS	\$34,000
Civil Engineering	Wu, Xing	Zaloom, V.	Resilience of Sabine Neches Waterway: Capacity restoration and flow analysis for deep draft waterways	CAPM	\$28,956
Civil Engineering	Wu, Xing	Hamidi, M.	Quantitative Analysis on Waterway Traffic Delay and Channel Capacity	CAPM	\$28,525
Computer Science	Andrei, Stefan		Installing and conducting data analysis for a weather station at Lamar University	CfR	\$17,000
Computer Science	Liu, Xingya	Zhe Luo, Z.; Cai, T.	Virtual assistant platform for resilience and safety in trenching construction in Southeast Texas	CfR	\$19,977
Computer Science	Liu, Xingya	Wang, R.; Luo, Z.	Drone-based internet access for temporary communications during natural disasters	CfR	\$51,000
Computer Science	Sun, Bo	Qian, Q.; Zhang, J.; Selvaratnam, T.; Sun, F.	Robust and reliable IoT-based wireless sensor networks for environmental monitoring infrastructure resiliency	CfR	\$49,300
Construction Management	Hwang, Seokyon	French, D.	Resilience of Construction Companies in SETX: Disaster Preparedness and Post-Disaster Recovery Capacity	CfR	\$29,968
Construction Management	Luo, Zhe	Lin, C.	Developing an information hub for Emergency Management and response in Southeast Texas	CfR	\$12,500
Counseling	Weinbaum, Rebecca	McGough, K.	Resiliency Curriculum: I'm Stronger Today	CfR	\$20,000
Deaf Studies and Deaf Education	Greene, Ashley	Clark, M.	Strategies and Recommendations to Improve Disaster Resiliency of the SETX DHH Community	CfR	\$7,500
Economics, Finance and Business Analysis	Sargsyan, Gevorg	Kukeli, A.; Slaydon, J.; Howell, P.	Natural disaster effect on housing market, population migration, and flow of earnings: Evidence from Southeast Texas (SETX)	CfR	\$25,446
Economics, Finance and Business Analysis	Sargsyan, Gevorg	Chen, D.; Andrei, S.	360° Comprehensive Interdisciplinary Analysis of resiliency and risk management practices for port and marine terminal operations	CAPM	\$49,992
Electrical Engineering	Zargarzadeh, Hassan		Real-Time defect detection for autonomous welding using machine learning	CMMS	\$33,962
Electrical Engineering	Zargarzadeh, Hassan		Incipient leakage detection through embedded sensors and AI on drones	CMMS	\$17,500
Electrical Engineering	Wang, Ruhai		Development of Cyber Security System for Port Infrastructure	CAPM	\$30,000
English and Modern Languages	Nemmers, Adam	Ener, T.	Lamar Strong: A Resiliency Reader	CfR	\$20,000
English and Modern Languages	Smith, Amy		Summer Fest 2023: Documenting Dance	CfR	\$5,500



Health and Kinesiology	Jordan, Shannon	Mullican, J.; Chilek, D.; Spina, R.	Emphasizing the importance of physical activity after natural disaster: Critical information for municipalities and community dwellers	CfR	\$25,000
Industrial Engineering	Bradley, Robert		Corrosion Prevention at Pipe Supports	CMMS	\$33,876
Industrial Engineering	Eren Tokgoz, Berna	Selvaratnam, T.; Gummelt, G.; Williams, B.; Hwang, S.; Tokgoz, C.	Community Resilience Indicator System: Developing a community resilience framework in response to natural disasters – Phase II	CfR	\$50,998
Industrial Engineering	Hamidi, Maryam	Wu, X.	Developing Texas Commodity Flow Data Web Tool	CAPM	\$30,000
Industrial Engineering	Liu, Xinyu	Li, X.; Zhou, J.	Intelligent/Adaptive performance & reliability assessment tools for end users of turbine-compressor trains	CMMS	\$34,000
Industrial Engineering	Marquez, Alberto	Wu, X.	A simulation approach to evaluate current port operations and optimize future operations through effective port asset management during construction and operations	CAPM	\$21,733
Industrial Engineering	Liu, Xinyu	Zaloom, V.	Development of a Modeling framework for Risk-Informed Asset Management of the Port of Beaumont	CAPM	\$29,109
Industrial Engineering	Selvaratnam, Thinesh	Tokgoz, B.	Developing reliability indexes for Southeast Texas's energy grid	CfR	\$23,743
Industrial Engineering	Zaloom, Victor	Marquez, A.	A simulation approach to evaluate current port operations and optimize future operations through effective port asset management during construction and operations	CAPM	\$21,735
Management and Marketing	Weeks, Kelly		Addressing resiliency via extending green supply chain practices through automation	CfR	\$16,660
Mathematics	Fowler, Jennifer		ERCOT grid - Degree correlation in networks and applications	CfR	\$15,000
Mechanical Engineering	Fan, Xuejun	Doranga, S.; He, P.; Tokgoz, B.; Zhou, J.; Bernazanni, P.; Chen, C.; Yoo, J.	Research, Education, and Outreach toward a Center for Resiliency and reliability of semiconductor packaging	CfR	\$50,834
Mechanical Engineering	He, Ping	Jordan, S.	STEM Learning: building resilience in health and socioeconomic well-being for the local, economically disadvantaged community through a basketball camp	CfR	\$15,264
Mechanical Engineering	Li, Xianchang	Andrei, S.; Sargsyan, G.; Liu, X.; Zhou, J.	Developing and modeling a net zero energy building with solar-based nanogrid control to enhance the power resilience of Southeast Texas Community	CfR	\$50,975

Mechanical Engineering	Yavas, Denizhan		Improved infrastructure resilience via enhancing structural integrity of additively manufactured carbon fiber reinforced PEEK composite parts for Oil & Gas industry use	CfR	\$29,523
Mechanical Engineering	Yavas, Denizhan		Conceptual design for a Pig-Receiving Station minimizing the release of natural gas into the atmosphere	CMMS	\$12,913
Music	Clark, Jacob	Cho, S; Fresne, J.; Wright, G.	Inspiring resiliency in Southeast Texas through the life and music of Beethoven: CD recording, Digital distribution, and Outreach/Educational performances	CfR	\$10,000
Music	Frost, Brielle		Resiliency within music	CfR	\$3,700
Nursing	Chisolm, LeAnn	Troy Palmer, T.; ,Moss,P.; Rolf, C.; Thibodeaux, T.; Dockens, A; Gummelt, G.	Promoting resiliency and aging: Preventative care, Education, Remote patient monitoring, and Telehealth/Telemedicine	CfR	\$18,164
Nutrition, Hospitality and Human Services	Killough, Jill	Wallet, K.; Shows, A.	Disaster preparedness training for non-profit foodservice organization employees in a multi-disaster region	CfR	\$25,000
Nutrition, Hospitality and Human Services	White, Janeal	Wallet, K.	Going to the Source: Assessing needs of unhoused Southeast Texans	CfR	\$5,000
Physics	Cole, Phil	Jordan, J.	Detection of methane lakes in Soils - Phase II	CMMS	\$33,996
Political Science	Easterly, Bianca		Regional resilience building and policy agenda setting in Southeast Texas - Disaster prone areas and state legislature response	CfR	\$7,016
Political Science	Gregory, Christina	Easterly, B; Williams, B; Davis, T.	A Comparative, Constitutional, and State Law Investigation of the legal challenges of intergovernmental and intersectoral relations to community resilience	CfR	\$19,840
Political Science	Williams, Brian	Sowers, T.	Disaster and Alternative Service Delivery: The influence of disaster on local governments and willingness to partner with local industry (Public – Private Partnerships)	CfR	\$3,975
Social Work/Criminal Justice	Chang, Chiung-Fung	Gummelt, G.	Moms Are Not Alright (MANA) —The Impact of the COVID-19 pandemic on postpartum depression in Southeast Texas	CfR	\$20,388
Social Work/Criminal Justice	Gummelt, Ginger	Lynn Maurer	Trauma Informed Pathways (TIP)	CfR	\$7,000
Social Work/Criminal Justice	Gummelt, Ginger	Roebuck, K.; Wright, L.; Singh, M.; Malick, S.; Smith, T.	Mental health Intervention, Networking, & Diversion	CfR	\$45,978
Speech and Hearing	Whisenhunt Saar, Karen		Promoting community to support living with dementia in Southeast Texas: A Pilot Cognitive Stimulation Group Program	CfR	\$11,235

Teacher Education	Singh, Mamta		Assessing post disaster resilience among elementary & secondary teachers	CfR	\$5,000
Teacher Education	Yan, Yan	Killough, J.; Akkurt, M.	Emotionally responsive teaching: Reframing resilience for children and youth experiencing homelessness through story books reading practices	CfR	\$5,000

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**Table 7: Faculty research support by research centers and academic colleges**

Department	Faculty	Center/ College	Funding Source	Payment Amount	EPAF Description
Industrial Engineering	Hamidi, Maryam	CAPM	Center	\$28,023	Performing research for the Center for Advances in Port Management, student advisement and student admissions for the masters programs, represent CAPM at meetings including TXDOT and Houston Pilots, and attending and presenting at maritime conferences
Business Law	Baldo, Melissa Martin	CAPM	Center	\$9,167	Summer Teaching Faculty
Chemical Engineering	Lou, Helen	CMMS	Center	\$19,308	Assigned tasks 1. Managing/Supporting CMMS course module program with Dr. Roden. 2. Managing/Supporting CMMS research program as directed by Tom Kalb and in association with Dr. Roden (reviewing reports submitted or planned to submit as required under RFP awards), discussions of new projects to implement, discussions of specific LU faculty expertise. 3. Meetings with each LU faculty member with a CMMS grant. Report back to Tom and Tim on progress and outlook for the work so far and expected by the end of the summer. 4. Encourage and work with faculty members to develop research/education proposal to external funding agency 5. Other tasks as requested by Tom Kalb to including on campus meetings, off campus events participation, etc.
Electrical Engineering	Zargarzadeh, Hassan	CMMS	Center	\$4,200	Design and prototype of real-time condition monitoring infrastructure appropriate for oil and gas as well as other midstream sectors
Computer Science	Andrei, Stefan	COAS	Departmental	\$3,188	Providing research instruction and activities during the camps as camp instructor. He will be assisting students in 3D modeling/Printing and Python Programming to conduct future research efforts.
Computer Science	Andrei, Stefan	COAS	Departmental	\$4,590	Sargsyan Research project title: 360° Comprehensive Interdisciplinary Analysis of Resiliency and Risk Management Practices for Port and Marine Terminal Operations Assigned tasks: analysis of cybersecurity threats for port maritime of Beaumont
Sociology Soc Work Crim Just	Worley, Vidisha Barua	COAS	Departmental	\$500	Spring 2023 Research
Political Science	Gregory, Christina	COAS	Departmental	\$500	Spring 2023 Research
English	Johnson, Gretchen	COAS	Departmental	\$500	Spring 2023 Research
Sociology Soc Work Crim Just	Chang, Chiung-Fang	COAS	Departmental	\$500	Spring 2023 Research
Biology	Pyne, Matthew	COAS	Departmental	\$5,000	Summer Research Fellowship
Chemistry and Biochemistry	Guo, Zhifo	COAS	Departmental	\$5,000	Summer Research Fellowship
Computer Science	Sun, Bo	COAS	Departmental	\$5,000	Summer Research Fellowship

English & Modern Languages	Joffe, Sharon	COAS	Departmental	\$5,000	Summer Research Fellowship
English & Modern Languages	Nemmers, Adam	COAS	Departmental	\$5,000	Summer Research Fellowship
English & Modern Languages	Smith, Amy	COAS	Departmental	\$5,000	Summer Research Fellowship
History	Bryan, Jimmy	COAS	Departmental	\$5,000	Summer Research Fellowship
History	Kibbe, Tina	COAS	Departmental	\$5,000	Summer Research Fellowship
Mathematics	Couch, PJ	COAS	Departmental	\$5,000	Summer Research Fellowship
Mathematics	Vega Guzman, Jose	COAS	Departmental	\$5,000	Summer Research Fellowship
Nursing	Knight, Stacey	COAS	Departmental	\$5,000	Summer Research Fellowship
Nursing	Kostandy, Raouth	COAS	Departmental	\$5,000	Summer Research Fellowship
Physics	De La Madrid, Rafael	COAS	Departmental	\$5,000	Summer Research Fellowship
Physics	Sen, Cengiz	COAS	Departmental	\$5,000	Summer Research Fellowship
Sociology Soc Work Crim Just	Krause, Stefan	COAS	Departmental	\$5,000	Summer Research Fellowship
Accounting & Information Systems	Zhao, Yu	COB	Departmental	\$6,670	Make a presentation on the findings of the summer research to College of Business faculty at a scheduled session in Fall/Spring 2023-24. Submit a manuscript based on the summer research to an ABDC-ranked journal by May 31, 2024
Business Law	Baldo, Melissa Martin	COB	Departmental	\$12,000	Killing Them Softly: The Slow Erosion of Our Constitutional Rights
Accounting & Information Systems	Ruseva, Marina	COB	Departmental	\$12,000	Deliverable: Make a presentation on the findings of the summer research to College of Business faculty at a scheduled session in Fall/Spring 2023-24. Submit a manuscript based on the summer research to an ABDC-ranked journal by May 31, 2024.
Marketing	Karani, Komal	COB	Departmental	\$12,000	Make a presentation on the findings of the summer research to College of Business faculty at a scheduled session in Fall/Spring 2023-24. Submit a manuscript based on the summer research to an ABDC-ranked journal by May 31, 2024
Business	Tovar-Silos, Ricardo Salvador	COB	Departmental	\$9,000	Make a presentation on the findings of the summer research to College of Business faculty at a scheduled session in Fall/Spring 2023-24. Submit a manuscript based on the summer research to an ABDC-ranked journal by May 31, 2024
Business	Tovar-Silos, Ricardo Salvador	COB	Departmental	\$3,000	Make a presentation on the findings of the summer research to College of Business faculty at a scheduled session in Fall/Spring 2023-24. Submit a manuscript based on the summer research to an ABDC-ranked journal by May 31, 2024

Finance	Chen, Chunda	COB	Departmental	\$6,000	Make a presentation on the findings of the summer research to College of Business faculty at a scheduled session in Fall/Spring 2023-24. Submit a manuscript based on the summer research to an ABDC-ranked journal by May 31, 2024
Construction Management	Kim, Minkyum	COB	Departmental	\$12,000	Make a presentation on the findings of the summer research to College of Business faculty at a scheduled session in Fall/Spring 2023-24. Submit a manuscript based on the summer research to an ABDC-ranked journal by May 31, 2024
Accounting & Information Systems	Swift, Orrin James	COB	Departmental	\$12,000	Make a presentation on the findings of the summer research to College of Business faculty at a scheduled session in Fall/Spring 2023-24. Submit a manuscript based on the summer research to an ABDC-ranked journal by May 31, 2024.
Accounting & Information Systems	Zhao, Yu	COB	Departmental	\$5,330	Make a presentation on the findings of the summer research to College of Business faculty at a scheduled session in Fall/Spring 2023-24. Submit a manuscript based on the summer research to an ABDC-ranked journal by May 31, 2024.
Construction Management	Luo, Zhe	COB	Departmental	\$12,000	Topic: "Machine-Learning-Based Virtual Agent for Promoting Construction Safety: Natural Language Processing and Web Application Development"
Management Marketing and Business Law	Dong, Meichen	COB	Departmental	\$12,000	Our present research aims to investigate the differential impact of time and money activation on consumers' propensity to share information. We postulate that the activation of the time resource, as opposed to money, will foster greater information sharing. The experiments will be conducted during the summer 2023 and the manuscript will be prepared in the fall 2023 and expected to be submitted to a journal by spring 2024
Information Systems & Analysis	Jawad, Muhammad	COB	Departmental	\$15,000	The impact of information presentation format on user decision-making: A format-stage perspective.
Civil Engineering	Uddameri, Elma A.	COE	Departmental	\$2,604	Summer Research Faculty
Mechanical Engineering	Fan, Xuejun	COE	Departmental	\$38,590	Faust Foundation - Research Description, Modeling, simulation, and characterization of heterogeneous integrated components and systems and external proposal preparations.

**Table 8: Projects funded by the Office of Undergraduate Research in FY23**

<b>Faculty Advisor</b>	<b>Student/Department</b>	<b>Title</b>	<b>Grant Type</b>
Andrei, Stefan	Nicholas Wade & Joshua Mallari/Computer Science	The viability of using solar panels to improve the efficiency of EV batteries.	OUR
Bahrim, Bodgana	Aaron Martinez/Physics	Study of Hlateral collisions with Ag(111) metal surfaces, covered by Na adsorbates	OUR
Bahrim, Bogdana	Jonah Watts/Physics	Local effects induced by K adatoms	OUR
Bahrim, Cristian	Tyler Stuck/Physics	Generating the Curve of Dispersion for Silica glasses using a Diode Laser and an Isotropic Source of Energy	SURF
Bradley, Kelley	Noah Bonnette/Industrial Engineering	Investigating Metal Micro-Casting of Carders to Expand Single Wall Carbon Nanotube Research Capabilities	OUR
Bradley, Kelley	Coby Vidrine/Industrial Engineering	Investigation of microstructures for usage in drug delivery for atherosclerotic plaque reduction	OUR
Bradley, Kelley	Jennifer Arredondo/Industrial Engineering	Developing Engineered Silicone Ferroelectrets for Bending Motion	OUR
Bradley, Kelley	Victoria Nguyen/Industrial Engineering	The Potential of Milled Oyster Shell Fillers on the Properties of Thermoplastic Composites	SURF
Fagen, Jennifer	Alexa Heng/Sociology	Understanding Victims of Sexual Assault: Deconstructing Emotional Manipulation Tactics Perpetrated Against Asian American Women	SURF
Forret, Jeff & Sato, Yasuko & Yan, Yan	Brandon L. Stumpf/History	Intellectual Filth: How Higher Education Was Weaponized in Nazi Germany	SURF
Greschner, Debra	Faith Singh/Music	A Guide to Vocal Health for Pre-professional and Neophyte Music Teachers	SURF
Hale, Gina	Kaitlyn B. Cherry/Nursing	Exploring Causes, Manifestations, and Interventions of Autism Spectrum Disorder Among Nursing Students	SURF
Hext, Michelle	Madison Taylor/Madison Taylor	Where Critical Care and Mental Health Collide – The Association Between Hospitalized Critical Care Patients and Mental Health Disorders	SURF
Hoch, Matt	Kimberlie Travelstead/Biology	Tardigrades in the Wind?	OUR
Hoch, Matt	Muneed Akhatar/Biology	Molecular Microbial Testing of the Islamic Hadith to Wash a Dog Licked Plate with Soil	OUR
Hoch, Matthew	Philippine Brossard/Biology	Comparing Tardigrade Abundance and Community Composition in Lichen from Coastal and Inland Areas: Does Sea Salt Aerosol Matter	SURF
Jordan, Shannon	Kristin Hebert/ Exercise Science	Landing Mechanics and Muscle Activation in Modern Dancers	SURF
Jordan, Shannon	Nikhil Patel/Exercise Sciences	Does Vaping Nicotine Produce Markers Of Oxidative Stress (8- Isoprostanes) In Expired Respiratory Condensate: A Pilot Study	OUR
Kirk, Edythe	Lily Yoder/Psychology	The Effects of Fatigue and Self-Esteem on Suggestibility	OUR

Kucknoor, Ashwini	Colby White/Biology	Tetraspanin gene knock-down and exosome formation in <i>Trichomonas foetus</i> , a cattle pathogen	OUR
Kukeli, Akim & French, Dan	Lexus Wilkerson/Accounting	The Dynamics of Crowdfunding: Investigation of the effect of Investor's Sentiment	OUR
Lian, Ian	Amber Maredia/Biology	Effect of Microplastics on the Wound-Healing Ability of HaCaT and 3T3 Cell Lines	OUR
Luo, Zhe	Isabella Sandino/Mechanical Engineering	Application of Virtual Reality in Construction Safety Training	SURF
Madrid, Rafael De La	Caleb Gregory/ Chemical Engineering & Physics	A Neutron Veto for Dark Matter Detection	SURF
Morris, Lekeitha & Musyoka, Millicent	Madison Smith/Speech & Hearing Sciences	Speech-Language Pathology Graduate Students Knowledge, Attitudes, and Perceptions Regarding Deaf Culture	OUR
Musyoka, Millicent	Cindy Sosa Castro/Deaf Studies & Deaf Ed	Capturing the Stories of Deaf Individuals of Color on College and Career Aspirations to improve advising and mentoring	OUR
Musyoka, Millicent	Sarah Anderson/Deaf Studies & Deaf Ed	Deaf Parents Supporting Hearing Children's Language and Literacy Development	SURF
Nainabasit, Binod & Bahrim, Cristian	Justin Ramirez/Physics Education	Do Lecture Quizzes Act as a Motivating Factor for Students' Success?	OUR
Singh, Mamta	Itzanami Madrid/Preservice Teacher	Are Preservice Teachers Knowledgeable About Climate Change to Implement in Their Future Classrooms?	OUR
Singh, Mamta & Thibodeaux, Tilisa	Maryah Javed/Dental Education	Assessing the Awareness, Knowledge, and Understanding of Flossing among Pre-Dental Students and Pre-Service Teachers	OUR
Smith, Zanthia	Omar Ramos/Deaf Studies & Deaf Education	Deaf Latinos' Experiences in Post-secondary Education	OUR
Smith, Zanthia	Haley Perkins/Deaf Studies & Deaf Ed	Leveling Up: A Tri-state Exploration of BEI Interpreter Certification	SURF
Smith, Zanthia; Douglas, William	Aniya Crawford, Ethan Honza, and Haley Perkins/Deaf Studies & Deaf Education	Leveling Up: Obstacles to Sign Language Interpreting Certification Advancement	OUR
Twagirayezu, Sylvestre	Heena Karani/Chemistry	Conformational Studies of Perfluorooctanoic Acid (PFOA) in the Presence of Molecular Helicity	OUR
Xu, Qiang	Cristian Reza-Mora/Chemical Engineering	Modeling and Simulation of Integrated Nuclear and Water Electrolysis Process for Hydrogen Source Generation	OUR
Yao, Chun-Wei	Evelyn Hardy/Mechanical Engineering	Effects of 3D Printed Bouligand Structures with Different Pitch Angles on Material's Dynamic Yield Strength	OUR
Zargarzadeh, Hassan	Abdulhalim Hachicho/Electrical Engineering	Investigating the Change of Light Projection Angle on the Performance of (textured/flat) Surface Photovoltaic Cell structures	SURF



## **Appendix I: List of publications by LU faculty members in peer-reviewed journals indexed by SCIE, SSCI, AHCI and ESCI in 2023 (156 total)**

1. Tasneem, S.; Ageeli, A. A.; Alamier, W. M.; Hasan, N.; Goodarzi, M. Development of machine learning-based models for describing processes in a continuous solar-driven biomass gasifier. *International Journal of Hydrogen Energy* 2024, 52, 718-738. DOI: 10.1016/j.ijhydene.2023.08.043.
2. Nezhad, A. E.; Mobtahej, M.; Javadi, M. S.; Nardelli, P. H. J.; Sahoo, S. Optimal operation of lithium-ion batteries in microgrids using a semidefinite thermal model. *International Journal of Electrical Power & Energy Systems* 2024, 155. DOI: 10.1016/j.ijepes.2023.109630.
3. Islam, M. R.; Zahid, A.; Rahman, M. A.; Rahman, M. F.; Islam, M. A.; Hossain, M. K.; Ali, M. A.; Iqbal, M. A.; Bakhsh, F. I.; Ahmad, S. Tuning the optical, electronic, and mechanical properties of inorganic Ca<sub>3</sub>PCl<sub>3</sub> perovskite via biaxial strain. *Journal of Physics and Chemistry of Solids* 2024, 184. DOI: 10.1016/j.jpcs.2023.111722.
4. Zhao, Y.; Li, Y. J.; Bandyopadhyay, K. The Role of Techno-Eustress in Technology-Enhanced IT Learning. *Journal of Computer Information Systems* 2023. DOI: 10.1080/08874417.2023.2240723.
5. Zhao, Y.; Bandyopadhyay, S.; Bandyopadhyay, K. Learning Complex Technology Online: Effect of Challenge and Hindrance Techno-stressors on Student Satisfaction and Retention. *Communications of the Association for Information Systems* 2023, 52, 587-608. DOI: 10.17705/1cais.05225.
6. Zhang, Y. N.; Anicode, S. V. K.; Fan, X. J.; Madenci, E. Peridynamic modeling of void nucleation and growth in metal lines due to electromigration in a finite element framework. *Computer Methods in Applied Mechanics and Engineering* 2023, 414. DOI: 10.1016/j.cma.2023.116183.
7. Zhang, M.; Valentín, D.; Valero, C.; Chen, Q. G.; Li, X. C. Experimental and numerical investigation on the dynamic behavior of two partially overlapped identical plates submerged in water. *Ocean Engineering* 2023, 280. DOI: 10.1016/j.oceaneng.2023.114319.
8. Zambonino, M. C.; Quizhpe, E. M.; Mouheb, L.; Rahman, A.; Agathos, S. N.; Dahoumane, S. A. Biogenic Selenium Nanoparticles in Biomedical Sciences: Properties, Current Trends, Novel Opportunities and Emerging Challenges in Theranostic Nanomedicine. *Nanomaterials* 2023, 13 (3). DOI: 10.3390/nano13030424.
9. Zada, W.; Hussain, J.; Anwar, M.; Ullah, W.; Ali, Z. Physico-mechanical and petrographic insights of Lockhart Limestone, sections of Islamabad, Pakistan. *Geotechnical Research* 2023, 10 (1), 33-45. DOI: 10.1680/jgere.22.00007.
10. Yuan, Y. Z.; Zhu, Y.; Lin, C. J.; Wang, S. X.; Xie, Y. H.; Li, H. X.; Xing, J.; Zhao, B.; Zhang, M. M.; You, Z. Q. Impact of commercial cooking on urban PM<sub>2.5</sub> and O<sub>3</sub> with online data- assisted emission inventory. *Science of the Total Environment* 2023, 873. DOI: 10.1016/j.scitotenv.2023.162256.
11. Yuan, W.; Wang, X.; Lin, C. J.; Song, Q. H.; Zhang, H.; Wu, F.; Liu, N. T.; Lu, H. Z.; Feng, X. B. Deposition and Re-Emission of Atmospheric Elemental Mercury over the Tropical Forest Floor. *Environmental Science & Technology* 2023, 57 (29), 10686-10695. DOI: 10.1021/acs.est.3c01222.
12. Yin, H. Q.; Yao, H.; Yuan, W.; Lin, C. J.; Fu, X. W.; Yin, R. S.; Meng, B.; Luo, J.; Feng, X. B. Determination of the Isotopic Composition of Aqueous Mercury in a Paddy Ecosystem Using Diffusive Gradients in Thin Films. *Analytical Chemistry* 2023, 95 (33), 12290-12297. DOI: 10.1021/acs.analchem.3c01356.

13. Ygiyeva, D.; Pivina, L.; Messova, A.; Urazalina, Z.; Semenova, Y.; Dyussupov, A.; Dyussupov, A.; Belikhina, T.; Syzdykbayev, M.; Batenova, G.; et al. Paramedic To Provider Consultation Challenges in the Emergency Department in Kazakhstan: An Online Survey. *Open Access Emergency Medicine* 2023, 15, 69-77. DOI: 10.2147/oaem.S401331.
14. Yavas, D. High-temperature fracture behavior of carbon fiber reinforced PEEK composites fabricated via fused filament fabrication. *Composites Part B-Engineering* 2023, 266. DOI: 10.1016/j.compositesb.2023.110987.
15. Yao, Q. J. Concepts and Reasoning: a Conceptual Review and Analysis of Logical Issues in Empirical Social Science Research. *Integrative Psychological and Behavioral Science* 2023. DOI: 10.1007/s12124-023-09792-x.
16. Yang, L.; Liang, J.; Wang, R. H.; Liu, X. Y.; De Sanctis, M.; Burleigh, S. C.; Zhao, K. A Study of Licklider Transmission Protocol in Deep-Space Communications in Presence of Link Disruptions. *IEEE Transactions on Aerospace and Electronic Systems* 2023, 59 (5), 6179-6191. DOI: 10.1109/taes.2023.3273523.
17. Wu, F.; Yang, L. H.; Wang, X.; Yuan, W.; Lin, C. J.; Feng, X. B. Mercury Accumulation and Sequestration in a Deglaciated Forest Chronosequence: Insights from Particulate and Mineral-Associated Forms of Organic Matter. *Environmental Science & Technology* 2023, 57 (43), 16512-16521. DOI: 10.1021/acs.est.3c03107.
18. Wright, S. A. Re-Examining Collective Religious Violence at Rajneeshpuram: A Cultural Opposition Model Analysis. *Journal for the Scientific Study of Religion* 2023. DOI: 10.1111/jssr.12903.
19. Worley, V. B.; Giannouloupoulos, D.; McDermott, Y. Judicial independence under threat. *International Criminal Justice Review* 2023. DOI: 10.1177/10575677231212172.
20. Worley, R. M.; Gummelt, G.; Worley, V. B. Unjust Desserts! Unravelling the Gender-Specific Dimensions of Female Sexual Offending. *Deviant Behavior* 2023, 44 (10), 1533-1548. DOI: 10.1080/01639625.2023.2214288.
21. Worley, R. M.; Forst, B. A Look at Ron Huff's Contributions to Social Justice. *Theory in Action* 2023, 16 (2), 84-90. DOI: 10.3798/tia.1937-0237.2311.
22. Worley, R. M. A Message from the Theory in Action Book Review Editor. *Theory in Action* 2023, 16 (4), 113-115. DOI: 10.3798/tia.1937-0237.2329.
23. Wolsey, J. L. A.; Neild, N. R.; Clark, M. D. Finding the keystone for Deaf doctoral students' success: Does mentoring matter? *Mentoring & Tutoring* 2023, 31 (2), 228-249. DOI: 10.1080/13611267.2023.2178711.
24. Watmore, K. I.; Stevens, M. S.; Prothero, D. R.; Marriott, K. Systematics of the late Eocene 'oreonetine' oreodonts (Merycoidodontidae: Artiodactyla). *Historical Biology* 2023. DOI: 10.1080/08912963.2023.2234390.
25. Wang, H. D.; Zhai, Y. X.; Shah, U. H.; Karkoub, M.; Li, M. Adaptive fuzzy control of underwater vehicle manipulator system with dead-zone band input nonlinearities via fuzzy performance and disturbance observers. *Ocean Engineering* 2023, 277. DOI: 10.1016/j.oceaneng.2023.114194.
26. Valentine, S. R.; Godkin, L.; Fleischman, G. The Impact of Ethical Forms of Organizational Leadership and Ethical Employment Contexts on Employee Job Satisfaction in Nigerian Hospitality and Recreation Firms. *Employee Responsibilities and Rights Journal* 2023. DOI: 10.1007/s10672-022-09434-1.

27. Uzir, M. U. H.; Bukari, Z.; Al Halbusi, H.; Lim, R.; Wahab, S. N.; Rasul, T.; Thurasamy, R.; Jerin, I.; Chowdhury, M. R. K.; Tarofder, A. K.; et al. Applied artificial intelligence: Acceptance-intention-purchase and satisfaction on smartwatch usage in a Ghanaian context. *Heliyon* 2023, 9 (8). DOI: 10.1016/j.heliyon.2023.e18666.
28. Uwumiro, F.; Olaomi, O. A.; Tobalesi, O.; Okpujie, V.; Abesin, O.; Ekata, E.; Ezerioha, P.; Umoudoh, U. A.; Olapade, Z.; Asobara, E. Enteral Nutrition Versus Parenteral Nutrition on Outcomes in Acute Pancreatitis: Insights From the Nationwide Inpatient Sample. *Cureus Journal of Medical Science* 2023, 15 (9). DOI: 10.7759/cureus.44957.
29. Uwamungu, J. Y.; Seemaladinne, R.; Yadav, A.; Ulloa, N.; Al-Musawi, T. J.; Lagum, A. A.; Kadhim, M. M.; Al-Maabreh, A. M. Designing a promising electrocatalysts based on iron single-atom doped in graphyne-like BN-yne for water splitting application. *Journal of Physics and Chemistry of Solids* 2023, 180. DOI: 10.1016/j.jpcs.2023.111454.
30. Tian, Y.; Gothe, R. W.; Mokeev, V. I.; Hollis, G.; Amaryan, M. J.; Armstrong, W. R.; Atac, H.; Avakian, H.; Barion, L.; Battaglieri, M.; et al. Exclusive  $\pi$ -electroproduction off the neutron in deuterium in the resonance region. *Physical Review C* 2023, 107 (1). DOI: 10.1103/PhysRevC.107.015201.
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