EURē**CA**

2019 Winners

The 23rd Exhibition of Undergraduate Research and Creative Achievement (EURēCA) took place April 15-18, 2019 in Hodges Library. Students from across the university entered their undergraduate research, senior design projects, clinical projects, and creative achievements for judging. Over 1000 students presented 749 projects. projects received recognition at the EURēCA Awards night.

Each undergraduate college selects and awards their top students. College awards ranged from first place to honorable mention. The top students on Monday night and Wednesday night also received ORE Gold, Silver, and Bronze Awards for Undergraduate Research funded by the Office of Research and Engagement. These awards are presented across research areas and highlight the best of the best in undergraduate research and creative achievement on our campus. In nine categories, students were awarded 10 gold, 10 silver and 8 bronze awards. These Awards of Excellence provide prizes in the following amounts: \$500 for gold awards, \$300 for silver awards, and \$200 for bronze awards.

A total of 139 Awards were presented at the Awards Ceremony on Monday, April 22, 2019. Below is the list of award recipients.

ORE Awards

ORE Gold Awards				
Award	College	Student(s)	Project Title	Faculty Mentor
Office of	Herbert College	Marlo Black	A Survey of	Karen Vail
Research &	of Agriculture		Domestic Hosts of	
Engagement			Cimex lectularius in	
Gold Award			an Urban Setting	
Office of	College of Arts	Kyle Freeman	Investigating Role of	Tessa Burch-Smith
Research &	& Sciences,		Cell Wall Modifying	
Engagement	Natural Sciences		Enzymes on	
Gold Award			Intercellular	
			Trafficking in Plants	
Office of	College of Arts	Kaylie Richard	Identification and	Jeremiah Johnson
Research &	& Sciences,		Purification of an	
Engagement	Natural Sciences		Outer Membrane	
Gold Award			Protein from	
			Campylobacter jejuni	

Office of Research & Engagement Gold Award	College of Engineering	Alec Yen, Yah Mensa	SABR: Development of a Neuromorphic Balancing Robot	Mark Dean
Office of Research & Engagement Gold Award	College of Arts & Sciences for Art, Music, and Theater	Hannah Mcmillen	Shelf Help	Sarah Lowe
Office of Research & Engagement Gold Award	College of Social Work	Scott Sloan	Prevention & Retention: An analysis of a Community Law Office Youth Program Attendance Patterns	Bill Nugent
Office of Research & Engagement Gold Award	College of Arts & Sciences, Social Sciences	Megan Belcher	"Pipe(ing) Up about Pipe Fragments: An Analysis of Woodland Period Pipes from the Topper Site (38AL23)"	David Anderson
Office of Research & Engagement Gold Award	College of Nursing	Mallory Lanier	Rescue Dosing as a Standardized Treatment Protocol for Neonatal Abstinence Syndrome to Decrease Length of Hospital Stay	
Office of Research & Engagement Gold Award	College of Arts & Sciences, Humanities	Hannah Nelson	What the —: UT Students' Bad Language Ideologies	Jessica Grieser

Office of	College of	Michael Lidwin	Design-Building as	Katherine
Research &	Architecture &	Tyler Sanford,	Community	Ambroziak
Engagement	Design		Empowerment	
Gold Award		Elizabeth Ott,	through Green	
		G 1 mul	Magnet Academy's	
		Cochran Tettleton,	Little STEAM	
		Carda are Dittin ann	Library	
		Sydney Bittinger,		
		John Huddleston,		
		om made ston,		
		Margaret House,		
		Walter Costner,		
		Aubrey Dodon		
		Aubrey Bader,		
		Kari Essary,		
		j,		
		Samuel Brown,		
		Schuyler Daniel,		
		Drian Dialela		
		Brian Pickle,		
		Allison Ward		

ORE Silver Awards					
Award	College	Student(s)	Project Title	Faculty Mentor	
Office of Research & Engagement Silver Award	Tickle College of Engineering	Nicole Kowalski	Comparing EMG- and Goniometer-Driven NMI Control For A Virtual Target Acquisition Task	Dustin Crouch	
Office of Research & Engagement Silver Award		Stevenson	Spying on Mice: Video coding and quantifying pup retrieval behavior in adult female mice	Keerthi Krishnan	
Office of Research & Engagement Silver Award	Tickle College of Engineering	Taylor Berger	Decoding Brainwaves for Visual Attention to Faces and Scenes	Xiaopeng Zhao	

Office of Research & Engagement Silver Award Office of Research & Engagement Silver Award	College of Arts & Sciences, Natural Sciences Haslam College of Business	Thomas Clarity Austin Kuhr	Acute social defeat-induced neuroinflammation in the vmPFC of Syrian hamsters via microglial activation Using Martingale Difference Correlation for Variable Selection	Matthew Cooper Chung Lee
Office of Research & Engagement Silver Award	College of Nursing	Malerie Lazar	"I've Always Had to Fight": A Phenomenological Study on Appalachian Men and Women Who Seek Care at Free Episodic Health Care Clinics	Lisa Davenport
Office of Research & Engagement Silver Award	College of Arts & Sciences, Social Sciences	Adriana Ford	Solar Potential Impacts on Energy Poverty in Knox County, TN in 2017	Yingkui Li
Office of Research & Engagement Silver Award	College of Education, Health & Human Sciences		Successful Implementation and Elements of Healthy Food Retail Programs: Extension Professionals Perceptions	Sarah Colby
Office of Research & Engagement Silver Award	College of Architecture & Design	Grayson Word, Nicole Hamel, Alison Ward	Haitian Housing: Social and Cultural Evolution Through Transitional Space	Katherine Ambroziak
Office of Research & Engagement Silver Award	College of Communication & Information	Dara Carney- Nedelman	AUIGTROSAI (Acronym Usage in Groups: The Relationship of Socialization and Identification)	Emily Paskewitz

ORE Bronze Awards				
Award	College	Student(s)	Project Title	Faculty Mentor
Office of	College of	Collin Pekol	Developing a Method for	Chris Wetteland
Research &	Engineering		Testing Tackiness of	
Engagement			Bituminous Tack Coats	
Bronze Award				

			T	
Office of Research &	College of Engineering	Matthew Adams	Oxide Supported Nickel Based Intermetallic	Siris Laursen
Engagement	88		Compounds in Dry	
Bronze Award			Reforming of Methane for	
			Syngas Production	
Office of	College of Arts	Landen	Turbulent Flow Modeling	Yuri Kamyshkov
Research &	& Sciences,	Mcdonald	using Cryogenic Helium	
Engagement	Natural Sciences		and Neutron Beams	
Bronze Award				
Office of		John Hymel	A computational study of	Konstantinos D.
Research &	& Sciences,		CO2 interactions with	Vogiatzis
Engagement	Natural Sciences		functionalized calixarene	
Bronze Award			molecules	
Office of	College of Arts	Carrie Garrison,	Dixon vs. Alabama State	Cary Staples
Research &	& Sciences for		Board of Education	
Engagement		McLane Zaitz,		
Bronze Award	Theater	D 71		
		Evan Zelem,		
		Mdigirigi		
		Ndigirigi Gichingiri		
Office of	Haslam College	Matthew Holt	Investigation into the	Lauren Cunningham
Research &	of Business	Matthew Holt	Reporting & Presentation	Lauren Cummignam
Engagement	of Dusiness		of the Underlying	
Bronze Award			Economics of Stock-based	
Dionze riward			Compensation	
Office of	College of Arts	Alexis Beaver	"Do parental fear	Kristy Allen
Research &	& Sciences,		perceptions affect phobic	
Engagement	Social Sciences		children's performance on	
Bronze Award			a parent-child behavioral	
			approach test?"	
Office of	Architecture &	Zachary Orig	Organic Urbanisms:	Tricia Stuth
Research &	Design		Applied Agronomy on the	
Engagement			Campus of Knoxville	
Bronze Award			College	

College Awards

Herbert College	e of Agriculture			
Student (s)	Project Title	Faculty Mentor	College	Award
Marlo Black	A Survey of Domestic Hosts of Cimex lectularius in an Urban Setting	Karen Vail	Herbert College of Agriculture	First Place
Rajeev Kumar	More than Skin Deep: Blood Serum Protein Changes in Response to Batrachochytrium salamandrivorans Chytridiomycosis	Matt Gray	Herbert College of Agriculture	Second Place
Jaime Ragos	A Pilot Study on Teaching Food Safety to Bilingual Students with Hands On Activities		Herbert College of Agriculture	Third Place
Leah Dunlap	Plant Mapping Overwintering Phyllocoptes fructiphilus	Mark Windham	Herbert College of Agriculture	Honorable Mention
Anna Kouns	Rose Rosette Disease Research in Knoxville	Mark Windham	Herbert College of Agriculture	Honorable Mention

College of Arts & Sciences, Humanities				
Student (s)	Project Title	Faculty Mentor	College	Award
Hannah Nelson	What the ——: UT Students' Bad Language Ideologies	Jessica Grieser	College of Arts & Sciences, Humanities	Award of Excellence

Margaret Stroud, Zoe Mazzu, Hrysoula Grammatikas, Aurora Parker,	Italian Translation Project: "La Leggenda del Borgo" The Legend of the Medieval Town	Annachiara Mariani	College of Arts & Sciences, Humanities	Award of Excellence
Carla Whaley,				
Julia Walsh	Common Ancestors and the Ethical Display of Bog Bodies in "Kingship and Sacrifice"	Lisa King	College of Arts & Sciences, Humanities	Award of Excellence
Audrey Jean Culpepper	Visually Mapping the Narrative System of Dostoevsky's The Idiot	Stephen Blackwell	College of Arts & Sciences, Humanities	Award of Excellence
Anita Voorhees	Metaphor Theory and Its Relation to Social Policy	Lisa King	College of Arts & Sciences, Humanities	Honorable Mention
Amanda Bryant	The Slave Woman and the Free: Hagar and Sarah as Exegetical Strategy in Galatians 4:21-5:1	Erin Darby	College of Arts & Sciences, Humanities	Honorable Mention

Jeffrey Holt	Blood and	Millie Gimmel	College of Arts &	Honorable Mention
	Conquest: An		Sciences, Humanities	
	Investigation into			
	The Most			
	Prominent			
	Diseases of 16th			
	Century Mexico			
	and How They			
	Impacted			
	Colonization and			
	Cultural			
	Exchange			

College of Arts & Sciences, Social Sciences					
Student (s)	Project Title	Faculty Mentor	College	Award	
Kelly Roth,	The Impact of Race and Affect on Infant		College of Arts & Sciences, Social	Award of Excellence	
Caitlin Berosh,	Visual Attention to Faces		Sciences		
Emily Grimes					
Martin Walker,	"Pipe(ing) Up about Pipe Fragments: An	David Anderson	College of Arts & Sciences, Social	Award of Excellence	
Megan Belcher	Analysis of Woodland Period Pipes from the Topper Site (38AL23)"		Sciences		
Adriana Ford,	Solar Potential Impacts on Energy	Yingkui Li	College of Arts & Sciences, Social	Award of Excellence	
Kelly Baar	Poverty in Knox County, TN in 2018		Sciences		

Alexis Beaver	"Do parental fear perceptions affect phobic children's performance on a parent-child behavioral approach test?"	Kristy Allen	College of Arts & Sciences, Social Sciences	Award of Excellence
Esther Reynolds,	•	Shannon Ross- Sheehy	Sciences, Social	Award of Excellence
Catalina Gonzalez Nickolas Jernigan	cued attention task Face the Music: Facial expressions of emotion suggest that sad music elicits more positive than negative affect	Jeff Larsen	Sciences College of Arts & Sciences, Social Sciences	Award of Excellence
Alexander Tripp	Modern Chinese	Richard Pacelle Jr	College of Arts & Sciences, Social Sciences	Award of Excellence
Patrick Sonnenberg	LGBTI+ Terminologies, Identities, and Activism in Nepal	Lois Presser	College of Arts & Sciences, Social Sciences	Award of Excellence
Paige Greene	Campus Alert: How Colleges Construct Racial and Sexual Violence in Clery Reporting	Louise Seamster	College of Arts & Sciences, Social Sciences	Honorable Mention
Jasmine Blue	European Union Responses to the "Migrant Crisis" Stem from Western Europe's History of Colonialism and Imperialism		College of Arts & Sciences, Social Sciences	Honorable Mention
Connor Smith, Megan Schmidt,	The Convergent and Discriminant Construct Validity	Mark Waugh	College of Arts & Sciences, Social Sciences	Honorable Mention
Daren Garcia,	of the SCORS-G as a Measure of		Beterices	
Erin Crittenden	Personality Functioning			

Elizabeth Martens	Examining the Behavioral Dynamics of Selective Attention in the Flanker Task	Aaron Buss	College of Arts & Sciences, Social Sciences	Honorable Mention
Regan Carell,	Understanding the Relation Between	Jenn Bolden	College of Arts & Sciences, Social	Honorable Mention
Mckenzie Martin	Core ADHD Symptoms and Lower- and Higher- Level Reading Abilities		Sciences	
Megan Porter	Convective Mode and Communication in Tennessee: Tornado Warning Challenges for Forecasting within the National Weather Service	Kelsey Ellis	College of Arts & Sciences, Social Sciences	Honorable Mention
Mary Gray	Reconstruction of a Roman Fort: Photogrammetry of Tabernae (Lalla Lilaliya)	Stephen Collins- Elliott	College of Arts & Sciences, Social Sciences	Honorable Mention
Michaela Thordarson,	The role of color in transsaccadic object correspondence	Caglar Tas	College of Arts & Sciences, Social Sciences	Honorable Mention
Lindsey Bailey				

Haslam College of	Haslam College of Business					
Student (s)	Project Title	Faculty Mentor	College	Award		
Austin Kuhr	Using Martingale Difference Correlation for Variable Selection	Chung Lee	Haslam College of Business	First Place		
Matthew Holt		Lauren Cunningham	Haslam College of Business	Second Place		

Luke Norton	Close to Home:	Maria Padilla-	Haslam College of	Third Place
	How College	Romo	Business	
	Proximity Impacts			
	Award of Merit-			
	Based Scholarship			
	Effects			

College of Communication & Information						
Student (s)	Project Title	Faculty Mentor	College	Award		
Dara Carney-	AUIGTROSAI (Acronym	Emily	College of	First Place		
Nedelman	Usage in Groups: The	Paskewitz	Communication &			
	Relationship of		Information			
	Socialization					
	and Identification)					
Emily Caylor	Family Communication	Courtney	College of	Second Place		
	Patterns and Advice	Wright	Communication &			
	Response Theory: How		Information			
	Emerging Adults View					
	Parental Advice on Money					

College of Educa	College of Education, Health & Human Sciences						
Student (s)	Project Title	Faculty Mentor	College	Award			
Alexandra	Successful	Sarah Colby	College of	First Place			
Nussbaumer	Implementation and		Education, Health				
	Elements of Healthy		& Human Sciences				
	Food Retail						
	Programs: Extension						
	Professionals						
	Perceptions						
Taylor Morgan	Overuse and Acute	Joshua Weinhandl	College of	Second Place			
	Injury Risk: Early		Education, Health				
	Warning Signs in		& Human Sciences				
	Female Soccer						
	Players						
Elissa Doll	Patient Perception	Sue Hume	College of	Third Place			
	and Clinician		Education, Health				
	Ratings of Voice		& Human Sciences				
	Disorder Severity						

College of Nursing						
Student (s)		Faculty Mentor	College	Award		
Mallory Lanier	Rescue Dosing as a Standardized Treatment Protocol for Neonatal Abstinence Syndrome to Decrease Length of Hospital Stay	Tourville	College of Nursing	First Place in Research		
Malerie Lazar	•	Lisa Davenport	College of Nursing	Second Place in Research		

Gabrielle Thress	Primary care provider's knowledge of and attitude of probiotic supplementation during pregnancy	Kathleen Thompson	College of Nursing	Third Place in Research
Caroline Carter	Sensory Processing Disorder in Premature Infants with Intrauterine Drug Exposure	Jennifer Tourville	College of Nursing	Honorable Mention in Research
Mary Wilson		Lizanne Elliott	College of Nursing	Honorable Mention in Research
Morgan Graham		•	College of Nursing	Honorable Mention in Research
Taylor Janeczek, Hanna Bayne, Madison Milner, Savannah Boxley		Susan McLennon	College of Nursing	First Place in Evidence Based Practice

Carlton Griffin,	Language Barrier Interventions and	Laurie Acred-	_	Second Place in Evidence Based Practice
Casey Smith,	Self-Reported Satisfaction in	Natelson	Nursing	
Margaret Macey,	Non-English- Speaking Patients			
Martha Higgs				
Trava King,	Prophylactic aspirin for	Rebecca Koszalinski	College of	Third Place in Evidence Based Practice
Chelsea Kendall,	preeclampsia and maternal mortality		Nursing	
Morgan French,				
Elizabeth Kraft				
Suelyn	Effect of Early	Rebecca	College	Honorable Mention in Evidence Based
Wadsworth	Ambulation on the Development of	Koszalinski	of Nursing	Practice
Travis Hunt,	Post-Intensive Care Syndrome (PICS)		_	
Kurtis Smith,	Among Adult Patients in the			
Melanie	Intensive Care Unit			
Brummette	(ICU)			
Cassandra Rooke,		Susan McLennon		Honorable Mention in Evidence Based Practice
Olivia Snow,	Birthing Positions' Effects on Labor		Nursing	2 23333
Ashley Bond,				
Grace Greenwell				

Rachel Sherry,	The Effects of	Jennifer	College	Honorable Mention in Evidence Based
	Music Therapy on	Tourville	of	Practice
Ravina Patel,	Cognition and		Nursing	
	Memory in Persons			
Peyton Daigre,	with Dementia			
Anna Neglia				

College of Social W	College of Social Work						
Student (s)	Project Title	Faculty Mentor	College	Award			
Scott Sloan	Prevention & Retention: An analysis of a Community Law Office Youth Program Attendance Patterns	Bill Nugent	College of Social Work	First Place			
Cal Lane	Analysis of the Quality of Life for Migrant and Seasonal Agricultural Workers in East Tennessee Attending Head Start Programs	Bill Nugent	College of Social Work	Second Place			
Meredith Hawk	Studying the Effects of Race on the Duration of Child Mentoring Matches	Bill Nugent	College of Social Work	Third Place			
Kalynne Woodard	Factors Affecting Maternal Visitation with their NAS Infants in the NICU	Terri Orme	College of Social Work	Award of Merit			
Rebecca Nicholson	Measuring ACE score validity based on method of scale administration	Bill Nugent	College of Social Work	Award of Merit			

College of Arts & Sciences, Honors English 298							
Student (s)	Project Title	Faculty Mentor	College	Award			
Aruha Khan	An Analysis of the Impact of Finance-Based Accounting upon High- Risk Decision-Making in American Corporations		College of Arts & Sciences, Honors English 298	First Place			

Travis Thornton	Examining the Effects of Americanization on International Chinese Student's Perceptions of China	College of Arts & Sciences, Honors English 299	Sceond Place
Madalyn Payne	Current Opioid Regulation: Impact on Prescribers and their Patients	College of Arts & Sciences, Honors English 300	Third Place

College of Architectu	College of Architecture & Design					
Student (s)	Project Title	Faculty Mentor	College	Award		
Michael Lidwin,	Design-Building as Community	Katherine Ambroziak	College of Architecture &	Award of Excellence		
Tyler Sanford,	Empowerment through Green Magnet		Design			
Elizabeth Ott,	Academy's Little STEAM Library					
Cochran Tettleton,						
Sydney Bittinger,						
John Huddleston,						
Margaret House,						
Walter Costner,						
Aubrey Bader,						
Kari Essary,						
Samuel Brown,						
Schuyler Daniel,						
Brian Pickle,						
Allison Ward						

Grayson Word,	Haitian Housing: Social and Cultural	Katherine Ambroziak	College of Architecture &	Award of Excellence
Nicole Hamel,	Evolution Through Transitional Space		Design	
Allison Ward				
Allison Ward	Preserving McKee Hall	Tricia Stuth	College of Architecture & Design	Award of Excellence
Grace Altenbern	A Machine to Understand the Tennessee River	Brian Ambroziak	College of Architecture & Design	Award of Excellence
Niklos Toldi	Hollow Convergence	Lisa Mullikin	College of Architecture & Design	Award of Excellence
Zachary Orig	Organic Urbanisms: Applied Agronomy on the Campus of Knoxville College	Tricia Stuth	College of Architecture & Design	Award of Excellence
Joseph Platt	The DJ's Archive	Jennifer Akerman	College of Architecture & Design	Award of Excellence
Allison Ward	MEATSPACE: Reconciling Perceptions of the Meal as Architecture	Brian Ambroziak	College of Architecture & Design	Award of Excellence

College of Arts & Sciences, Art, Music, Theater					
Student (s)	Project Title	Faculty Mentor	College	Award	
Collin Hall	Lighting Design for The Real Inspector Hound	Kenton Yeager	College of Arts & Sciences for Art, Music, and Theater	Award of Excellence	
Steven Brown	From "Northern Lights" to "The Ground": A Stylistic Survey of the Choral Works of Ola Gjeilo	Brendan McConville	College of Arts & Sciences for Art, Music, and Theater	Award of Excellence	

Hannah Mcmillen	Shelf Help	Sarah Lowe	College of Arts &	Award of Excellence
			Sciences for Art, Music, and Theater	
Vicki Nguyen	Music as a Metaphor for Culture	Carolyn Staples	College of Arts & Sciences for Art, Music, and Theater	Award of Excellence
Alaysia Jetter	Two & Fro	Sarah Lowe	College of Arts & Sciences for Art, Music, and Theater	Award of Excellence
Cassidy Bruninga	Lokel	Sarah Lowe	College of Arts & Sciences for Art, Music, and Theater	Award of Excellence
Tiara Householder	Imprints	Sarah Lowe	College of Arts & Sciences for Art, Music, and Theater	Award of Excellence
McLane Zaitz, Carrie Garrison,	Dixon vs. Alabama State Board of Education	Carolyn Staples	College of Arts & Sciences for	Honorable Mention
Ndigirigi Gichingiri,			Art, Music, and Theater	
Evan Zelem				
Alexa Pavon	Young Designers in the Freelance World	Sarah Lowe	College of Arts & Sciences for Art, Music, and Theater	Honorable Mention
Haley Ivey	Empowering Women with PCOS: Lifestyle Tracking Made Simple	Sarah Lowe	College of Arts & Sciences for Art, Music, and Theater	Honorable Mention

Geghie Davis	Intersectionality of	Carolyn Staples	College of	Honorable Mention
	African American		Arts &	
	Women During the		Sciences for	
	Civil Rights Movement		Art, Music,	
			and Theater	
Jennifer	Left Write	Sarah Lowe	College of	Honorable Mention
Bondarenko			Arts &	
	Writing Exercises for		Sciences for	
	Graphic Design		Art, Music,	
	Students		and Theater	

College of Arts &	College of Arts & Sciences, Natural Sciences					
Student (s)	Project Title	Faculty Mentor	College	Award		
Landen Mcdonald	Turbulent Flow Modeling using Cryogenic Helium and Neutron Beams	Yuri Kamyshkov	College of Arts & Sciences, Natural Science	Award of Excellence		
Afton Russell	A Cell Cycle Cue Triggers Cell Growth Resumption After Division	Maitreyi Das	College of Arts & Sciences, Natural Science	Award of Excellence		
Jackson Turner	How does elevation affect arbuscular mycorrhizal fungal abundance?	Stephanie Kivlin	College of Arts & Sciences, Natural Science	Award of Excellence		
John Hymel	A computational study of CO2 interactions with functionalized calixarene molecules	Konstantinos D. Vogiatzis	College of Arts & Sciences, Natural Science	Award of Excellence		
Thomas Clarity	Acute social defeat- induced neuroinflammation in the vmPFC of Syrian hamsters via microglial activation	Matthew Cooper	College of Arts & Sciences, Natural Science	Award of Excellence		

Andrew Dixson	Cratalization Duomentine of	Enon a Olivanaa	Callaga of	Arrend of Eventiones
Andrew Dixson	1	Franc Olivares	College of	Award of Excellence
	Transmembrane Peptides	Barrera	Arts &	
			Sciences,	
			Natural	
			Science	
Kyle Freeman	Investigating Role of Cell		College of	Award of Excellence
	Wall Modifying Enzymes	Smith	Arts &	
	on Intercellular		Sciences,	
	Trafficking in Plants		Natural	
			Science	
Parker Stevenson	Spying on Mice: Video	Keerthi Krishnan	College of	Award of Excellence
	coding and quantifying		Arts &	
	pup retrieval behavior in		Sciences,	
	adult female mice		Natural	
			Science	
	Arabidopsis thaliana	Daniel Roberts	College of	Award of Excellence
	NIP2;1: A Lactic Acid		Arts &	
Margaret	Transporter With a Role		Sciences,	
Spangler	in Plant Survival Under		Natural	
Spangier	Low Oxygen Stress		Science	
	20 W Onlygon Suess			
Emily Graham	The Relationship	Matthew Cooper	College of	Award of Excellence
	Between Dominance	1	Arts &	
	Status and Coping		Sciences,	
	Strategy		Natural	
			Science	
Philip Morgan	Examining the Role of	Ansui Lokdarshi		Award of Excellence
i iliip worgan	the GCN2-eIF2α	I mour Lordarom	Arts &	I ward of Excendince
	Paradigm in a ROS-		Sciences,	
	mediated Stress Signaling		Natural	
	Pathway in Arabidopsis		Science	
	thaliana		Belefice	
Mia Roark		Robert	College of	Award of Excellence
IVIIA NUAIK	How does age-related floral trait variation affect		College of Arts &	Awaru of Excellence
	reproductive success in	WICE Iden y	Sciences,	
	1 -		Natural	
	an annual plant, Collinsia verna?		Science	
T 11 C 1		G. II.		A 1 CE 11
Trell Stroud	Computational	Steven Johnston	College of	Award of Excellence
	Investigation of a New		Arts &	
	Fe(II) Tetracarbene		Sciences,	
	Catalyst		Natural	
			Science	

Jody Fleming	1 1	Kimberly Sheldon	College of Arts & Sciences, Natural Science	Award of Excellence
Bruce Boles	The Full Genome Sequence of an Antarctic Microbe Constructed Using a Rapid, Portable Sequencer and a Hybrid Assembly	Jill Mikucki	College of Arts & Sciences, Natural Science	Award of Excellence
Brett Emery, Matthew Everett	Investigating the cortical expression of perineuronal nets in mouse models of CDKL5 disorder	Keerthi Krishnan	College of Arts & Sciences, Natural Science	Award of Excellence
Kaylie Richard		Jeremiah Johnson	College of Arts & Sciences, Natural Science	Award of Excellence
Isabella Ritchie	Using Behavioral Variation to Explain Wolf Spider Community Structure	Susan Riechert	College of Arts & Sciences, Natural Science	Award of Excellence
Rachel Shah	Identifications of dying larval neurons during early phase of metamorphosis and genetic factors involved in their apoptosis in Drosophila melanogaster	Jae Park	College of Arts & Sciences, Natural Science	Honorable Mention
Jeffrey Dixon, Molly Landon,	E. coli to degrade toxic contaminants by utilizing dehalogenating	Frank Loeffler	College of Arts & Sciences, Natural	Honorable Mention
Brandon Kristy Kevin Kleiner	mechanisms Modeling Solid-Liquid Interface Reactions with Next Generation Quantum Molecular Dynamics	Nick Dygert	Science College of Arts & Sciences, Natural Science	Honorable Mention

Alva Bethurum	Association of BMI with Increased Anastomotic Time in Kidney Transplantation	Gladys Alexandre	College of Arts & Sciences, Natural Science	Honorable Mention
Whitney Gulledge	Characterizing degradation of the core hypoxia response protein Calmodulin-Like 38 during post-hypoxia recovery	Daniel Roberts	College of Arts & Sciences, Natural Science	Honorable Mention
Clare Remy	Identifying Cystic Fibrosis (CF) Skeletally: A Proposed Differential Diagnosis	Amy Mundorff	College of Arts & Sciences, Natural Science	Honorable Mention

Tickle College of	Engineering			
Student (s)	Project Title	Faculty Mentor	College	Award
Cabot Anderson,	Design of a Solar-Powered Non-Thermal Plasma	Xiofei Ye	Tickle College of Engineering	First Place, Capstone Design
Jordan Brewer,	Device for Water Disinfection			
Calvin Conn,				
Luke Martin				
Matthew Johnson,	Rain Garden Remediation and Infiltration	John Tyner	Tickle College of Engineering	Second Place, Capstone Design
Ryan Watson,	Enhancement by Biochar Injection System			
James Louis,				
Christian Patterson				
Yah Mensa,	SABR: Development of a Neuromorphic Balancing	Mark Dean	Tickle College of Engineering	First Place, Research
Alec Yen	Robot			
Taylor Berger	Decoding Brainwaves for Visual Attention to Faces and Scenes	Xiaopeng Zhao	Tickle College of Engineering	Second Place, Research

Lorna Treffert	The ARMor App: An Augmented Reality Prototype for Reliability and Maintainability	Xueping Li	Tickle College of Engineering	Third Place, Research
Elijah Davis	Tailored Metallic Hyper Energetic Nanomaterial Synthesis	Dibyendu Mukherjee	Tickle College of Engineering	Award of Merit
Collin Pekol	Developing a Method for Testing Tackiness of Bituminous Tack Coats	Chris Wetteland	Tickle College of Engineering	Award of Merit
Nicole Kowalski	Comparing EMG- and Goniometer-Driven NMI Control For A Virtual Target Acquisition Task	Dustin Crouch	Tickle College of Engineering	Award of Merit
Matthew Adams	Oxide Supported Nickel Based Intermetallic Compounds in Dry Reforming of Methane for Syngas Production	Siris Laursen	Tickle College of Engineering	Award of Merit
Logan White	Investigation of the effect of laser power on defects, texture, and tensile behavior of additively manufactured 316L stainless steel using in-situ synchrotron x-ray computed tomography and diffraction		Tickle College of Engineering	Award of Merit
Quinton Wright	Synthesis and Characterization of High- Entropy Perovskite (GdLaNdSmY)MnO3	Veerle Keppens	Tickle College of Engineering	Award of Merit

Congratulations to all of this year's winners!