



RESEARCH WEEK 2021

Graduate Poster Presentations

<i>Rank</i>	<i>Category</i>	<i>Contributors</i>	<i>Title</i>
1	Applied	Daniel Wilson	From Waste to Power: Efficient Conversion of Human Waste to Usable Energy
2	Applied	Daniel Kenney, Jared Darius	Anti-Roll Bar Fatigue Analysis and Redesign
3	Applied	Rachel Hernandez	#GENERATION Z: A Phenomenological Study Exploring the Experiences of Elementary Title I Teachers' Use of Educational Technology in the 21st Century Classroom
1	Creative and Artistic	Julie Elms	The Human Touch of Relief Printing Aesthetics using Digital Tools
2	Creative and Artistic	Renata Yassa	Omega Z Diet
3	Creative and Artistic	Mark Lawton	History Mysteries: An Exploration Into the Development of a Mystery at the Outset of the 1918 Spanish Flu in a New England Mill Town
1	Textual or Investigative	Meredith Busch	Presbyterian Anticommunism: Opposition to Marxism and McCarthyism
2	Textual or Investigative	Renee Mann	Pediatric Concussion Management in the School Setting
3	Textual or Investigative	Kevan Keane	For Love of Liberty: An Intellectual Biography of John Adams
1	Theoretical Proposal	Jessica Campbell	Improving Nurse Job Satisfaction to Improve Health Outcomes
2	Theoretical Proposal	Summer Hepler	The Effects of Emotional Education on the Mental Health of Future Nurses
3	Theoretical Proposal	Robin Pearson-Boothe	Flipped Learning



RESEARCH WEEK 2021

Undergraduate Poster Presentations

<i>Rank</i>	<i>Category</i>	<i>Contributors</i>	<i>Title</i>
1	Applied	Isaac Liu	Observations on the Use of Chemical Treatment for the Modification of Dielectric Elastomer's Mechanical Properties: A Work in Progress
2	Applied	Carson Farmer, Nathanael Gentry	Preliminary Results on the Use of Machine Learning for Advance Controls of a Dielectric Elastomer Actuator
3	Applied	Courtney Herm	Using Pulsed Shortwave Diathermy and Joint Mobilizations to Treat Shoulder Adhesive Capsulitis
1	Basic	Gabrielle Dampf, Jonathan Westlake, Neal McCaffrey, Pierce Knepley, Rachel Nas, Robert Fisher	An Examination of the Effects of Bisphenol A and Bisphenol A Derivatives During Zebrafish Development
2	Basic	Bailey Mims, Grace Roe, Julianna Young, So Jung Kim	Design and Synthesis of Endocannabinoid Enzyme Inhibitors for Peripheral Selectivity
3	Basic	Dajeong Jung, Julia Humble, Levi Mailloux, Rebeca Rodriguez, Sarah Melton	Glucose Regulation of the Paralogous Glucose Sensing Receptors Rgt2 and Snf3 of the Yeast <i>Saccharomyces Cerevisiae</i>
1	Textual or Investigative	Maggie Mynhier	The Sweet Efforts of Hershey's Chocolate Corporation During World War II
2	Textual or Investigative	Irene Hoisington	The Historic African American United Methodist Church: The Resilience of African American Religious Life in Antebellum Virginia
3	Textual or Investigative	Faith Chudkowski	Has America Departed From the Founders' Vision Out of Necessity or Greed?: A Historical Inspection of the Executive Branch
1	Theoretical Proposal	Sarah Mann	Polycystic Ovarian Syndrome and Insulin Resistance: An Evaluation of Treatment Modalities and Complication Prevention
2	Theoretical Proposal	Connor Chapman, Jaden Seman, Kristen Enns	Amphibian Skin Pathogen <i>Batrachochytrium dendrobatidis</i> Surveillance in Ecuador
3	Theoretical Proposal	Kolton Musgrove	Machine Learning Models for Energy Consumption Prediction in Buildings



RESEARCH WEEK 2021

Graduate Oral Presentations

<i>Rank</i>	<i>Category</i>	<i>Contributors</i>	<i>Title</i>
1	Applied	William Crawford	Locus of Control and Support for or Opposition to Concealed Carry on Campus: A Correlational Study
2	Applied	Gregory Shields	A Collective Case Study of Factors That Promote Academic Motivation Among High-Performing, Economically Disadvantaged Middle School Students
3	Applied	Keri Truhe	Musical Competency Deficiencies in Beginning Band Students at a Charter School in North Carolina
1	Creative and Artistic	Mark Lawton	History Mysteries: An Exploration Into the Development of a Mystery at the Outset of the 1918 Spanish Flu in a New England Mill Town
2	Creative and Artistic	Jessie Poole, Kennedy Luke, Madison Fogarty, Natalie Dodd, Olivia Martin, Sydney Morris	Environmental Graphic Design: Creating a Visual Identity for the School of Communication and the Arts
1	Textual or Investigative	Sarah Perkins	A Rhetorical Analysis on Carrie Chapman Catt in the Women's Suffrage Movement
2	Textual or Investigative	Zane Richer	Orienting Sphere Sovereignty: The Synthesis of Kuyperian and Augustian Theories as a Solvent for Modern Social Tensions
3	Textual or Investigative	James Knight	The Ruinous Northern Frontier: Roman-Hunnic International Engagements on the Danube
1	Theoretical Proposal	Cathleen Beachboard	Why Hope Matters: Fostering Resilience, Well-being, and Success in Students
2	Theoretical Proposal	Eunice Nogueras-Negron	A Middle School Choral Methodology and Curriculum Pairing: An Introduction
3	Theoretical Proposal	Phyllis Ferrier, Shannon Pugh, Victoria Evans	Emerging Adults and Parental Co-Residence: A Cultural Perspective



RESEARCH WEEK 2021

Undergraduate Oral Presentations

<i>Rank</i>	<i>Category</i>	<i>Contributors</i>	<i>Title</i>
1	Applied	Dylan Ureno	Cialdini's Principles of Liking and the 2016 Presidential Election
2	Applied	Ashlyn Cowell, Brent Schuliger, Nathan Waite, Paul Prentice, Reagan Nelson	Cold Turkey: Will the Recent Freeze in Turkish-NATO Relations Spiral Into a Bigger Problem?
3	Applied	Gabriella Dunemann, Kristen Enns	Seroprevalence of SARS-CoV-2 Antibodies in a University Student Population
1	Basic	Miranda Sheridan	The Cutaneous Microbiomes of Appalachian Salamanders and Their Role as an Innate Defense Against the Pathogen <i>Batrachochytrium Dendrobatidis</i>
2	Basic	Cara Arrasmith, Jonathan Tenerovich	Identification of Hepatopancreatic Parasites Afflicting Crayfish and Associated Snails in Local Virginia Streams
3	Basic	Alicia Loucks	Synthesis of a Material for the Sensitive and Selective Sorption of Perfluorooctanoic Acid
1	Creative and Artistic	Samantha Pearce	The Bell Jar: An Investigation into the Life and Style of Sylvia Plath
2	Creative and Artistic	Mattea Harrison	The Gilded Finch: An Exploration of Class Conflict
3	Creative and Artistic	Wendy Watkins	Bedford Alum Springs Hotel Guests and Dress of the late 1800's
1	Textual or Investigative	Dalton Davis	The Return of a Judicial Artifact?: How the Supreme Court Could Examine the Question of the Nondelegation Doctrine's Place in Future Cases
2	Textual or Investigative	Sadie Barham	More Than Misogyny: The Role of Women in the Ramayana
3	Textual or Investigative	Andrew Hilty	"Such a Spirit of Inoculation": The American Founders and Vaccination, 1720-1820
1	Theoretical Proposal	Ashley Dawson	The Perceived Differences in Employee Engagement Through Multiple Generations in the Workplace: An HR Perspective
2	Theoretical Proposal	Abigail Chu	Aristotle's Virtue Ethics and the Nurse's Role
3	Theoretical Proposal	Jacqueline Hale	One God?: A Documentary Treatment Exploring the Protestant and Catholic Divide



RESEARCH WEEK 2021

Graduate 3MT Presentations

<i>Rank</i>	<i>Category</i>	<i>Contributors</i>	<i>Title</i>
1	3MT	Daniel Wilson	From Waste to Power: Efficient Conversion of Human Waste to Usable Energy
2	3MT	Abigail Sanders	COVID-19's Impact on Higher Education Communication
3	3MT	Reid Prichard	Modeling a Novel Method to Diminish COVID-19 Transmission in a Hospital Room

Undergraduate 3MT Presentations

<i>Rank</i>	<i>Category</i>	<i>Contributors</i>	<i>Title</i>
1	3MT	Hayley Yukihiro	Groundbreaking Self-Breathing Ventilator Investigation
2	3MT	Nicholas Veeder	Implementing Gasification of Organic Matter in Developing Countries

Juried Arts Presentations

<i>Rank</i>	<i>Category</i>	<i>Contributors</i>	<i>Title</i>
1	2-D	Laura Bialecka	The Family Farm
2	2-D	Rainier Gleich	Seeking the Kingdom: A Series of Drawings
3	2-D	Joshua Jacobson	Loco-Robo and Gen
1	3-D	Rainier Gleich	Robotic Paper Unicorn
2	3-D	Rainier Gleich	C.S. Lewis House Sculpted Cake
3	3-D	Isabella Scarborough	The Flower Man
1	Graphic Design	Christopher Knight, Mathieu Angell, Natalie Dodd, Nathaniel Hammond	Redefine Kids Online
2	Graphic Design	Rainier Gleich	Highland Creamery Brand Identity
3	Graphic Design	Rainier Gleich	Cinderella Pattern Collection



RESEARCH WEEK 2021

Performing Arts Presentations

<i>Rank</i>	<i>Category</i>	<i>Contributors</i>	<i>Title</i>
1	Performing Arts	Hope Dornfeld	Travelin' to the Promised Land: Symbolism of the Jordan River in African Spiritual, English Hymn, and American Folksong Selections

People's Choice

<i>Category</i>	<i>Contributors</i>	<i>Title</i>
3MT	Laura Bialecka	The Family Farm
3MT	Daniel Wilson	From Waste to Power: Efficient Conversion of Human Waste to Usable Energy