

2024 RCID Winners

AUTHOR_1	AUTHOR_2	AUTHOR_3	AUTHOR_4	AUTHOR_5	Classification	Abstract_Title	P_Auth_Faculty_Advis	Faculty_Advis_Dept	Faculty_Advisor_College
Antonio Fuentes Garcia					Undergraduate Student	The Effects of Biochar as a Litter Amendment in on Broiler Growth Performance and Litter Quality	Victoria Ayres	Agriculture	College of Agriculture and Human Ecology
Ronnie Dunn					Graduate Student	Response of tomato yield and yield-correlated morphology to hydroponic nutrient solution application regimes	Michael Nattrass	Agriculture	College of Agriculture and Human Ecology
Canaan Jones	Brooke Galan				Undergraduate Student	Is Kombucha Leather a Viable and Attractive Alternative to Real and Faux Leather Options?	Hannah Upole	Human Ecology	College of Agriculture and Human Ecology
Shannon Lee	Lucas Ballard				Undergraduate Student	What are the primary advantages of using tensile fabric materials in the construction of commercial buildings compared with traditional building materials?	Hannah Upole	Human Ecology	College of Agriculture and Human Ecology
Cael Sumerlin	Raegan Tjon Sien Kie				Undergraduate Student	What is the feasibility of using reusable sterile medical gloves in medical training facilities?	Hannah Upole	Human Ecology	College of Agriculture and Human Ecology
Ethan Mayo	Chrystopher Shaward				Undergraduate Student	How Can Wearable Triboelectric Nanogenerators Be Optimized?	Hannah Upole	Human Ecology	College of Agriculture and Human Ecology
Macie Long					Graduate Student	Effects of Caffeine Intake on Anxiety and Depression Symptoms	Samantha Hutson	Human Ecology	College of Agriculture and Human Ecology
Hunter Tisdale	Kennedy Agee				Graduate Student	Exploring Eco-Friendly Screen Printing Practices that are Practical to Adopt	Hannah Upole	Human Ecology	College of Agriculture and Human Ecology
Piper Smith					Graduate Student	Alaskan Natives: Location and Health Vulnerability	Darci Bell	Human Ecology	College of Agriculture and Human Ecology
Kaitlyn Darnell					Undergraduate Student	A Novel Application of Membrane Inlet Mass Spectrometry to Study Larval Physiology of the Streamside Salamander (<i>Ambystoma barbouri</i>)	Joshua Hall	Biology	College of Arts and Sciences
Sahar Salimi	Foad Abdi				Graduate Student	Characterization and Organization of Telomeric-Linked Helicase (TLH) Gene 2 Families in <i>Fusarium oxysporum</i>	Mostafa	Biology	College of Arts and Sciences
Lauren Knight					Undergraduate Student	Carboxylic acids as anion precursors in the formation of liquid state thioridazine drugs	O. Andreea Cojocaru	Chemistry	College of Arts and Sciences
Blake Hudak					Undergraduate Student	Progress Towards the Convergent Synthesis of Unsymmetric, Pyridyl Imid- and Oxazoles via Cyclization of Amidines and Amides with Terminal Alkynes	Jesse Carrick	Chemistry	College of Arts and Sciences
Cadence Miller	Mitch Swann	Thusitha Jayasekara			Undergraduate Student	LOW BARRIER QUANTUM TUNNELING IN THE CIS AND TRANS CONFORMER OF 3-METHYLSTYRENE PROBES USING FT-MICROWAVE SPECTROSCOPY	Ranil Gurusinghe	Chemistry	College of Arts and Sciences

2024 RCID Winners

Claudia McDavid					Undergraduate Student	Utilization of APCI-mass spectrometry for field identification of opioids	Dr. Jeffrey Boles	Chemistry	College of Arts and Sciences
Iroda Abdullaeva	Danielle Ferguson				Undergraduate Student	N-acyl hydrazone furfural derivates as candidates for inhibition of quorum sensing in bacteria	Dr. Kyle Murphy	Chemistry	College of Arts and Sciences
Eric Agyei					Graduate Student	Telescoped condensation of heteroaryl carbonitriles toward unsymmetric, pyridyl-1,2,4-triazine complexant scaffolds for chemoselective minor actinide separations	Dr. Jesse D. Carrick	Chemistry	College of Arts and Sciences
Racheal Ajibola					Graduate Student	Progress towards the Synthesis of Unsymmetric Tridentate Complexants for Application to Minor Actinide Separations	Jesse Carrick	Chemistry	College of Arts and Sciences
Robert Moore	Riley Mansell				Undergraduate Student	XRD Illite Crystallinity Technique: Developing Laboratory Standards and Testing of Appalachian Shales	Dr. Gourab Bhattacharya	Earth Sciences	College of Arts and Sciences
Benjamin Lane					Graduate Student	Determining Watershed Pollution Environmental Justice Scenarios Using Data from Ambient Water and Fish Tissue	Dr. Peter Li	Earth Sciences	College of Arts and Sciences
April Riley					Undergraduate Student	Tennessee Death Penalty	Troy Smith	History	College of Arts and Sciences
Shannon Long					Undergraduate Student	A Tragic Resemblance: The Satirical Tale of Romeo and Juliet	Dr. Kristen Deiter	English	College of Arts and Sciences
Hailey Reagan					Undergraduate Student	Richard, Duke of Gloucester: Ruthless Ruler or Product of His Environment?	Kristin Deiter	English	College of Arts and Sciences
Abhijeet Solanki					Graduate Student	Optimizing Airfare Forecasting: A Comprehensive Analysis of Machine Learning Techniques	Dr. Kehelwala Dewage Maduranga	Mathematics	College of Arts and Sciences
Luke Parsons					Undergraduate Student	Measurements of the ¹³⁴ Xe Neutron Capture Cross-section Between 0.43 and 5.5 MeV	Mary Kidd	Physics	College of Arts and Sciences
Kailey Wood					Graduate Student	Historic Lows to Rapid Highs: How Interest Rate Changes Impact Banks' Cost of Funds	Sid C. Bundy	Accounting	College of Business
Justin Woods	Shaye Carter				Undergraduate Student	Pen to Picket: Unraveling the Economic Impacts of Writers and actors strikes in the Entertainment Industries.	Melissa Creek	College of Business	College of Business
Nick Woods					Undergraduate Student	Existential Meaninglessness Phenomenology	Dr. Matthew Zagumny	Counseling and Psychology	College of Education

2024 RCID Winners

Robert Officer					Undergraduate Student	The Development of Knowledge Blocks for Producing the Remanufactured filaments for the Material Extrusion Processes	Ismail Fidan	Manufacturing and Engineering Technology	College of Engineering
Mohammad Alshaikh Ali	Shamil Gudavasov	Vivekanand Naikwadi			Graduate Student	Experimental and Numerical Analysis of a Novel Metal Casting Process: Lost-PLA Casting	Ismail Fidan	Manufacturing and Engineering Technology	College of Engineering
Colin Wall	Andrew Gothard				Undergraduate Student	Material Testing of Aluminum Plate for Simplified Vibration Based Smart Building Structural Dynamics Model	Steven Anton	Mechanical Engineering	College of Engineering
Spencer Jones	Atra-Niese Jones				Graduate Student	Numerical Modeling of Industrial Thermal Management Systems for Energy Efficiency Improvements	Ethan Languri	Mechanical Engineering	College of Engineering
Theodora Kline					Undergraduate Student	Upper Cumberland Oral History Project: Preserving Weather History by Interviewing Long-term Residents.	Meagan Atkinson	Archives	Volpe College