

2023 ERN Conference in STEM
 Washington, D.C. - February 9-11
 2500 Calvert St NW, Washington, DC 20008
 Undergraduate Poster Presentation Schedule*

Poster Presentation Session 1: Friday, Feb. 10 – 10:00am – 12:00pm
 Poster Presentation Session 2: Friday, Feb. 10 – 4:00pm – 6:30pm
 Poster Presentation Session 3: Saturday, Feb. 11 – 8:00am – 10:30am
 Poster Presentation Session 4: Saturday, Feb. 11 – 11:00am – 12:30pm

| Session # | Board # | Abstract ID | Full Name | Institution | Abstract Title |
|-----------|---------|-------------|----------------------------------|--|---|
| 2 | A2 | 1 | Abban Faidoo, Ebenezer | Virginia State University | Characterizing Plant Circadian Clock Gene Expression in Insect Galls on Grape Leaves |
| 3 | A1 | 2 | Aboiralor, Irenosen | POMONA COLLEGE | Analyzing How Gene Regulatory Networks Influence the Drug Response of Human Cancer Cells |
| 4 | T4 | 152 | Aggarwal, Maalvika | Prairie View A&M University | Investigation of Moisture Distribution Characteristics of Different Landfill Final Cover |
| 4 | L2 | 137 | Al Rawi, Yaser | University of Missouri | Comparing Models of Two Neuromuscular Diseases: CMT2S and SMARD1 |
| 2 | V2 | 153 | Allen, Marcus | Norfolk State University | Wireless Communication Through Metal Pipes |
| 2 | B2 | 9 | Anderson, Dianah | Savannah State University | Benzalkonium Chloride Enhances Cell Death Induced by Etoposide in a p53-independent Manner |
| 4 | M4 | 138 | Andrew, Kieran | Arizona State University | Studying Spatial Accuracy During a Complex Cognitive Task In a Rodent Model of Alzheimer's Disease: A New Lens to View an Old Problem |
| 2 | O2 | 134 | Anwar, Elias | Norfolk State University | Characterization of B1Th Photopolymerization in vicinity of Metal/Dielectric substrates |
| 2 | B4 | 10 | Arnold, Anaya | Fort Valley State University | Fine Mapping the Br1 Gene in Pearl Millet (<i>Cenchrus americanus</i>) |
| 2 | O4 | 135 | Atashi, Julie | Fayetteville State University | Impact of side chain modification of donor polymer on optical and thermal properties of polymer non-fullerene blends |
| 3 | M3 | 169 | Atuonah, Alvin | Bowie State University | Antibiotic Resistance of Bacteria Present in Local Water Sites |
| 3 | A3 | 3 | Awolowo, Mojisoluwa | Morgan State University | Investigating AR and HMG2 Crosstalk in Prostate Cancer Cell Proliferation |
| 3 | Q3 | 115 | Baker, Anijha | Fort Valley State University | Sambucus Nigra Extracts Encapsulated into Biocompatible Polymers for Antifouling Formulations |
| 4 | N2 | 139 | Benítez-Montalvo, Laura Cristina | Pontifical Catholic University of Puerto Rico – Ponce Campus | Caenorhabditis elegans neuroigin mutants, a model for Autism Spectrum Disorder associated behaviors |
| 1 | E1 | 80 | Black, Kaya | Dillard University | Aluminum: The Normalized Toxicity Entering Through our Appetites |
| 4 | R2 | 147 | Boyd, Keylin | College of Science and Engineering, Texas Christian University | Induction Heated Reactors for Endothermic Reactions |
| 2 | C2 | 12 | Brema, Manie | Truman State University | Primary Cilia as Potential Regulators of Vascular Stability during Development |
| 3 | C1 | 13 | Brown, Valeria | Tougaloo College | Transcriptomic Validation of Markers for Stromal Cell Detection in Acute Myeloid Leukemia Bone Marrow Aspirates and Core Bone Marrow Biopsies |
| 3 | C3 | 14 | Bruce, Mia | University of Nevada Las Vegas | Effect of fluid shear on Pseudomonas aeruginosa biofilm morphology under different gravity regimes |
| 4 | U2 | 154 | Bryant, Ashley | Southern University and A&M College | Additive Manufacturing and Testing of Advanced Antennas |
| 2 | Q2 | 101 | Camaya, Tricia | Norfolk State University | A Cybersecurity Application to Examine the Impact of Cybersecurity Protocols on Work |
| 3 | R1 | 116 | Carballosa, Demi | Florida International University | The Urch- to Eat: Effect of encrusting bryozoans on the growth and feeding behavior of green urchins |
| 4 | R4 | 148 | Chagolla, Israel | University of North Texas | Development of ultrasonic probe integrated with an endoscope for real-time detection of cancer boundary |
| 3 | P1 | 111 | Chapman, Jonathan | University of Hawaii at Hilo | The Impacts of Copper Contamination on Aquatic Predator-Prey Interactions |
| 2 | C4 | 16 | Charles, Breanne | Oakwood University | Mechanisms of regulating expression and function of Staphylococcus aureus cysteine protease staphopain A |
| 2 | D2 | 17 | Chery, Vanessa | Montgomery College | Biophysical Characteristics of Fungus-Fermented Napier Grass |

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| | | | | | |
|---|----|-----|------------------------------|--|---|
| 3 | R3 | 117 | Cloud, Sierra | Fort Valley State University | Using proteins as tailored sorbents: bio-inspired strategies to design drinking water treatment |
| 1 | A1 | 76 | Coker, Katherine | Fayetteville State University | Synthesis of Indole Derivatives via Tandem Sonogashira-Cyclization Reactions Catalyzed by Palladium Nanoparticles Supported on Graphene |
| 3 | B1 | 4 | Cooper, Olive | Tougaloo College | The Efficacy of Silver Carboxylate on Acinetobacter baumannii and Safety in Skeletal Muscle Cells |
| 4 | U4 | 155 | Daugherty, Astrid | FAMU-FSU College of Engineering | Biofabrication and Rheological Characterization of Archaea-based Hydrogel |
| 1 | F1 | 81 | Davis, Bianca | University of Missouri- Columbia | siRNA Knockdown of XPC Protein Allows for the Study of DNA-Protein Crosslinks Repair |
| 1 | L1 | 87 | Davis, Dominique | Delaware State University | Delaware Wastewater |
| 1 | M1 | 88 | DeSalvo, Jack | Carthage College | Investigating Drug Interactions with Transthyretin using Molecular Dynamics Simulations |
| 1 | G1 | 82 | Desrochers, Mary | St. Olaf College | Technologies for Surveying the Small Binding Landscapes of RNA |
| 1 | N1 | 89 | Diaz, David | University of North Carolina at Charlotte | Photophysical Properties and Characteristics of Blue Emissive Thiazolothiazole Systems |
| 2 | V4 | 156 | Dieppa Ortiz, Josué A. | University of Puerto Rico, Mayagüez Campus | Fueling the differences: a GIS based analysis of patterns and tendencies of the fossil fuels supply and consumption in Puerto Rico. |
| 1 | O1 | 90 | Doyle, Jailen | Dillard University | Development and Characterization of Diclofenac Sodium Loaded Liposomes |
| 3 | P2 | 112 | Drew, Makayla | Virginia State University | Morphometric Study of Widespread Arctostaphylos Species Shows Species and Population Variability |
| 2 | D4 | 18 | Duseau, Katherine | University of New Haven | Evaluating Chromatin First Passage Time with a Cre-lox Assay |
| 4 | B2 | 19 | Edwards, Kayla | Alabama State University | Scaffold Supported Human Induced Stem Cell-Laden Microspheres for Production of Engineered Microsphere Heart Tissues |
| 1 | P1 | 91 | Ellis, Ikumi | Arizona State University | Biomass Burning Marker Characterization in Phoenix Area High Particulate Matter Events |
| 4 | V2 | 157 | Emeje, Ogheneobarome | University of Missouri-Columbia | Laser-scribed MoO ₂ on Porous Elastomer and Their Application on Wearable Sweat Sensors |
| 3 | D1 | 20 | Ervin, Anthony | Dillard University | Arterial stiffness and Echocardiography analysis in the four core genotypes Mouse |
| 1 | B1 | 77 | Eweama, Mary | Fayetteville State University | Amine-Functionalized Carbon Nanotubes Supported Palladium Nanoparticles in Buchwald-Hartwig Amination |
| 2 | Q4 | 102 | Farias, Frieda | Columbia University | Improving the Digital Rocks Portal Data Reuse |
| 2 | E2 | 21 | Figueroa Medina, Leira Yanak | Universidad Ana G. Mendez Recinto Carolina | Assessment and Quantification of Vibrio spp. on Water and Sand Samples in Recreational Waters of Puerto Rico: A Public Health Approach |
| 4 | B4 | 22 | Frater, Tyrece | University of South Florida | Computational Analysis of Interleukin-4 and its Potency As a Therapy for Autoimmune Diseases |
| 3 | S1 | 118 | Fritz, Alyssa | University of Missouri | Macroalgae Can Predict Anthropogenic Stressors Using Trait-Based Ecology |
| 2 | E4 | 23 | Gibson, Melvin | Fort Valley State University | Effects of Perfluorooctane Sulfonic Acid (PFOS) exposure on Lrk-1 expression in Caenorhabditis elegans |
| 3 | D3 | 24 | Gilaj, Nord | Lehman College | MTAP inhibitor MTDIA expands anti-cancer efficacy of MAT2a inhibitors to MTAP+/+ cancers and inhibits PRMT5 |
| 3 | E1 | 25 | Goldring, Zachary | Bowie State University | Screening inhibitors against beta-lactam antibiotic sensing protein (BlaR1) expressed in MRSA |
| 3 | S2 | 119 | Gomez, Ramona | Missouri State University | CONTAMINATION RISKS TO THE SPRINGFIELD AQUIFER BY ASSESSING THE QUALITY OF FIVE SPRINGS IN POLK COUNTY, MISSOURI |
| 4 | C2 | 26 | Gonu, Sarah | College of Dupage | Medical Applications of Additive Manufacturing: Anatomical Modeling |
| 3 | E3 | 27 | Hackett, Zhayne | Bowie State University | Virtual validation of drug target and identification of lead compounds against Naegleria fowleri |

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|---|----|-----|------------------------------|--|--|
| 4 | V4 | 158 | Harrison, Kiram | FAMU-FSU College of Engineering (FAMU) | Bioprinted Bacterial-Mammalian Co-Culture Hydrogels for Tissue Modeling |
| 3 | P3 | 113 | Harvey, Kyra | Virginia State University | Species Distribution Model Predicts Expanded Habitat for Drought Tolerant Plants as Climate Changes |
| 4 | W2 | 159 | Henderson, Raelyn | Southern University and A&M College | THE EFFECTS OF COMBINING BACTERIA STRAIN WITH GLASS FIBER FOR SELF HEALING CONCRETE |
| 2 | F2 | 28 | Hines, Harley | Arkansas Tech University | Tsh and CtBP molecular interaction coordinates eye development in Drosophila |
| 3 | F1 | 29 | Hinojosa, Isabella | Oklahoma State University | Preservation at Room Temperature of emaravirus rosae (RRV) Infected Tissue |
| 2 | U2 | 149 | Ibrahim, Ali | Ohio State University | Wearable Sensors for Joint Flexion Monitoring: Low-Angle Resolution Improvement |
| 2 | W2 | 160 | Irby, Jamal | Alabama A&M University | Surveying the Need for Cybersecurity Best Practices Training for College Students |
| 2 | F4 | 30 | Iro, Abdullahi | Bowie State University | Analyzing Effect of Hormones and Nitrogen on Finger Millet and Developing Biofortified Baby Foods |
| 3 | S3 | 120 | Iwuji, Tochi | Coppin State University | Analysis of Copper Cation Concentrations Across Baltimore Watersheds Using Atomic Absorption Spectrophotometer |
| 2 | U4 | 150 | Jain, Dhvani | Princeton University | Everyday EdTech Blocks Bridges: How Linguistic Racism in Educational Language Technology Perpetuates Structural Inequality |
| 3 | B3 | 5 | James, Mikayla | Oakwood University | WNT regulation of immune evasion in high grade serous ovarian cancer |
| 3 | W3 | 129 | Johnson, Alexandria | University of South Florida | Comparing Prostate Specific Antigen Dynamics Between Black Patients and White Patients |
| 3 | F3 | 31 | Joseph, Jalen | Oakwood University | Strategies of regulating Staphylococcus aureus cell sorter Sortase A expression |
| 4 | W4 | 161 | Kelley, Sarah | The University of Alabama | Upcycling of Polypropylene to Produce Reusable Antifungal Landscape Fabric |
| 3 | G1 | 32 | Konadu, Ellen | Oakwood University | The anti-hemolytic properties of silver nanoparticles against pathogenic bacteria |
| 2 | G2 | 33 | LaFollette, Alexandra | Boise State University | Survivability of Transgenic Zebrafish (Danio rerio) with the ApoE4 (1-151) Fragment: A study involving the strongest genetic risk factor for developing late onset Alzheimer's Disease |
| 2 | G4 | 34 | Lawrence, Sydney | Fort Valley State University | Localization of Candidate Effector Genes in Root-Knot Nematodes by In-Situ Hybridization |
| 2 | H2 | 35 | Lekane Tedjouteu, Valdel | Bowie State University | Determination of Nutrient and Anti-Nutrient Factors in Cassava Leaves of Selected Varieties in Kenya |
| 1 | H1 | 83 | Leon, Diana | Arizona State University | Non-Platinoid Bimetallic Electrocatalysts Overcome Nitrate Reduction Performance of Conventional Platinum Group Electrodes |
| 2 | W4 | 162 | Leoncio Cabán, Rubén Esteban | University of Puerto Rico at Mayagüez | Servingness in challenging times: RISE UP and the environmentally conscious path towards a resilient Puerto Rico |
| 2 | H4 | 36 | Liberto, Sophia | University of Maryland, Baltimore County | Exploration of Genetic Compensation in Algal Lipid Production Genes |
| 2 | R2 | 103 | Lionts, Marilyn | University of Texas at Austin | Distributed Methods for Dynamic Disease Monitoring |
| 2 | T4 | 144 | Liu, Jack | Carnegie Mellon University | Development of Software to Explore the Optical Properties of Multilayers |
| 1 | Q1 | 92 | Loera, Lourdes | Arizona State University | Iodine and Bromine Speciation in Atmospheric Particulate Matter |
| 3 | T1 | 121 | Lorthe, Dejanah | Norfolk State University | A Study of the Susceptibility of the Reproduction and Morphology of Danio Rerio to Ammonium Nitrate Toxicity |
| 4 | C4 | 37 | Maldonado, Stephany | University of Arizona | Testing of Different Calcium Phosphate Ceramic Particles in Cell Culture |
| 3 | O1 | 109 | Malikah, Sameeha | The City College of New York | Evaluating Extreme Precipitation Events in New York City and Sub-urbans Using Weather Station Data |

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|---|----|-----|--------------------------|--|--|
| 3 | G3 | 38 | Mansion, Aliyah | Dillard University | The Effects of Aripiprazole and Pravastatin on the Embryonic Development in <i>Xenopus laevis</i> |
| 2 | I2 | 39 | Manuel, Ambria | University of Missouri - Columbia | SARS-CoV-2/COVID-19 Recruitment of Neutrophils and Macrophages |
| 3 | H1 | 40 | Marcus, Destiny | Livingstone College | Engineered E. Coli for Profusion of Drug-Like Molecules |
| 3 | Q1 | 114 | Martin, Journi | Morgan State University | Fremyella Diplosiphon and Its Effects On The Growth, Survival, and Nervous System Development in Brine Shrimp <i>Artemia Salina</i> |
| 1 | R1 | 93 | Maxwell, Kristine | Truman State University | Photo-fracking and the effects of external pressure on 1-azido-2-nitrobenzene crystals |
| 1 | S1 | 94 | Mayer, Jacob | Carthage College | NMR Spectroscopy of Glutamic Acid Containing Surfactant Micelles |
| 4 | X2 | 163 | McGee, Jeremiah | Southern University and A&M College | CHARACTERIZATION OF THE MECHANICAL BEHAVIOR AND SHAPE MEMORY EFFECT OF A THERMOSETTING SHAPE MEMORY POLYMER |
| 2 | P2 | 99 | Meekins, Shaimeira | Morgan State University | Dreadphobia: Evaluating the Usability of a Virtual Reality Application to Support Mental Health in Black Communities |
| 2 | I4 | 41 | Mendez, Nallely | Department of Agricultural Sciences, Fort Valley State University, Fort Valley, GA | Effect of Different Dry Cow Vaccination Schedules on Performance of Dairy Cows |
| 2 | X2 | 164 | Mendoza, Nicolas | New Mexico State University | Solar-Powered IoT Shrimp Aquaculture Monitoring System |
| 2 | J2 | 42 | Miller, DonnaMarie | Norfolk State University | The Effects of Coal Tar Creosote on the Early Developmental Stages of Local Germinating Plant Life. |
| 2 | X4 | 165 | Minor, Larry | Florida State University | Effects of Aging on Poly(vinyl alcohol) Gels |
| 3 | H3 | 43 | Miranda-Castrodad, Paola | University of Puerto Rico at Cayey | Developing a peptide tagging strategy to improve tethering in optical tweezers |
| 3 | N1 | 107 | Murray, Danielle | University of Connecticut | Degradation-Dependent Protein Release from Enzyme Sensitive Injectable Glycol Chitosan Hydrogel |
| 1 | T1 | 95 | Nguyen, Timmy | California State Polytechnic University, Pomona | Optimizing Substrate Design of Surface-enhanced Raman Spectroscopy for Virus Detection |
| 4 | D2 | 44 | Nunez Romero, Anthony | University of Arizona | Histological Analysis of Polymeric Ceramic Composite Scaffolds In Vivo |
| 2 | T2 | 143 | Nyang'oro, Phineas | North Carolina Central University | Vaccine Protocol Optimization Through Viral Population Simulation |
| 1 | I1 | 84 | Ogbeifun, Victoria | Missouri State University | Comparing The Metabolic Activity Of Canine And Human CYP1A2 And CYP2E1 Enzymes |
| 3 | I1 | 45 | Olvera, Sophia | University of Missouri, Columbia, MO | Detecting olfactory variability in the <i>Drosophila</i> Synthetic Population Resource |
| 4 | X4 | 166 | Ortiz, Arleth | University of Arizona | Development of High-Affinity Polymers for Removal of PFAS from Contaminated Groundwater |
| 2 | J4 | 46 | Ouoba, Laure | Bronx Community College | Bioinformatic identification of Interspecies Nucleotide sequence Divergence within putative bHLH and Otx2 Transcription Factor Binding Sites in the ThrbICR Retinal Enhancer Element |
| 2 | K2 | 47 | Outar, Joseph | University of Missouri - Columbia | Developing a tool to examine virulence functions of co-infiltrated bacterial effectors in plant cells |
| 1 | U1 | 96 | Owusu, Chantele | Regis University | Structure and reactivity of manganese intermediates in the permanganate oxidation of hydroxy-carboxylic acids |
| 3 | X1 | 130 | Pabon-Cancel, Eric | University of Puerto Rico, Mayagüez Campus | Permutation invariant parking functions with cars of assorted lengths |

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|---|----|-----|-----------------------------------|---|--|
| 4 | D4 | 48 | Paddock, Kayleigh | University of Arizona | Diets supplemented with a low glycemic index potato leads to lower blood glucose levels in rats |
| 3 | T2 | 122 | Pangilinan, Isabella Francesca | University of Southern California | Bioretention Basin Effects on Invertebrate Biodiversity and Soil Quality on the Main UTSA Campus |
| 4 | O2 | 140 | Pastor, Jade | Arizona State University | The long and winding road: do different pathways to hysterectomy lead to the same cognitive destination? |
| 1 | J1 | 85 | Patrick, Zahria | University of Missouri - St.Louis | The Effect of Variation of N-Substituents on Oxidopyridinium Ions in (4+3) Cycloadditions |
| 4 | E2 | 49 | Payne, Kamora | Fort Valley State University | The Effects of Diet on Lipid Storage in <i>Drosophila melanogaster</i> |
| 4 | E4 | 50 | Payne, Madalynn | Livingstone College | Comparing Methods of Manufacturing Perovskite Solar Cells |
| 1 | C1 | 78 | Peitsch, Jenna | Shelton State Community College | Casting and Testing of PVDF Membranes |
| 2 | R4 | 104 | Pellot Ortiz, Victoria | University of Puerto Rico in Aguadilla | Role of thiazolidinediones in adipose tissue remodeling |
| 2 | K3 | 51 | Pena, Kiersten | Indiana University-Purdue University Indianapolis | CRISPR/Cas9 Gene Editing to Identify and Isolate Retinal Ganglion Cells Derived from hPSCs |
| 3 | I3 | 52 | Peña, Valentina | SUNY Binghamton | Wining and Dining Gut Microbiomes: Uncovering Dietary Diversity in Elongated Fishes |
| 3 | N3 | 108 | Pérez, Carolina | University of Puerto Rico Río Piedras | A Comparative Study of Detrimental Floods in Mayagüez at Different Scales |
| 1 | K1 | 86 | Perez, Mina | Winston-Salem State University | Investigation of Electronic Effects of SN2 Reactions towards the Synthesis of Thiochromones |
| 3 | J1 | 53 | Petty, Mason | University of North Carolina Charlotte | To smell or not to smell: Relaxed Evolutionary Pressures in Chemosensory Genes and Morphology of Aquatic Snakes |
| 4 | S4 | 151 | Poler, Josephine | Arizona State University | Selecting a Sound Life Cycle Assessment for Natural Gas and Hydrogen Systems |
| 4 | A2 | 6 | Puri, Raima | Ohio State University | Investigation of Polymer Substrates to Prevent Posterior Capsular Opacification |
| 4 | F2 | 54 | Ramos, Cassandra | University of Missouri-Columbia | Developing Capsaicin Denervation of Perivascular Sensory Nerves to Study Inflammatory Bowel Disease |
| 3 | T3 | 123 | Rhodes, Raymond | Texas Southern University | Health Risk Assessment of contaminants in groundwater in Texas |
| 3 | J3 | 55 | Riley, Allissa | Virginia State University | The impact of environment on the prevalence of antimicrobial resistance in <i>E. coli</i> isolated from Central Virginia |
| 4 | Y2 | 167 | Rincon Ramirez, Benito | Arizona State University | Investigating Barrier Properties of Laminate Packaging Materials for Flexible Batteries |
| 3 | K1 | 56 | Rivera Rosado, Juan Gadiel | Pontifical Catholic University of Puerto Rico | Isolation and Molecular Characterization of Bacteria as Candidates for Hydrocarbons Bioremediation |
| 1 | V1 | 97 | Robinson, Iana | Regis University | A co-oxidation model for the reductive detoxification of hexavalent chromium in ground water: Kinetic screening of renewable substrates for reduction of hexavalent chromium in co-oxidation reactions of ethanol. |
| 3 | U1 | 124 | Rodríguez Hernández, Deytzalie J. | University of Puerto Rico in Aguadilla Campus | Parabens exposure during pregnancy and neurodevelopment measure in children of the PROTECT/ECHO Cohort |
| 3 | O3 | 110 | Rohrbaugh, Naomi | University of Pittsburgh | Recommending Composite Items with Graph Neural Networks |
| 2 | Y2 | 145 | Román Ashby, Amanda | University of Puerto Rico - Mayagüez | Electrical switching and Radio-frequency characterization of a novel phase change material |
| 4 | F4 | 57 | Rosales, Sapaydia | University of South Carolina | Polyurethane-based Polyvinyl Alcohol Hydrogels with Tunable Degradation Rates |
| 3 | U3 | 125 | Rosario, Stephen | Hunter College (CUNY) | Utilizing Machine Learning to Comprehend the Spatial Consistency of Floods in the United States, their Climate Correlations and Predictability |

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|---|----|-----|--------------------|---|--|
| 2 | K4 | 58 | Ross, Antoinette | Alabama State University | Fibroblast Cell Culture on Sodium Alginate Hydrogel Based Scaffold |
| 2 | Y4 | 146 | Rua, Adrian | University of Puerto Rico - Mayaguez | Pulsed laser deposition and ultrafast dynamics of FeSe _{0.8} Te _{0.2} thin films |
| 3 | V1 | 126 | Saenz, Joseph | Texas A&M University Kingsville | Updating the Historical Records of the Carrizo-Wilcox Aquifer Groundwater Availability Model for Improved Model Predictions |
| 2 | L2 | 59 | Santiago, Amanda | University of Puerto Rico Aguadilla Campus | Purple Air monitor system to detect particulate matter and promote resilience in Guayama, Puerto Rico |
| 3 | X3 | 131 | Schneegans, Luis | University of Missouri - St. Louis | Total Variation Flow in R ⁿ Dimensions with Examples Relating to Perimeters of Level Sets |
| 2 | L4 | 60 | Schultz, Marissa | University of Texas at San Antonio | Manual Segmentation of the Endoplasmic Reticulum in Cells to Aid in Computer learning |
| 3 | Y1 | 132 | Shepard, Hunter | Southern University and A&M College | Characteristics of Orthogonal Projection to Global Positioning System (GPS) |
| 2 | M2 | 61 | Simpson, Rosheen | Bowie State University | Longitudinal Study of Seasonal Effects on Soil Microbial Communities Using Metagenomics Approach |
| 2 | M3 | 62 | Smith, Carmen | California Polytechnic State University - San Luis Obispo | Persistence and Transfer of E. coli TVS355 and E. coli O157H12 in Poultry Litter; A Study of Produce Safety |
| 4 | G2 | 63 | Smith, Faith | Fort Valley State University | Chronic Perfluorooctane sulfonate (PFOS) exposure in C. elegans induces Oxidative Stress |
| 1 | D1 | 79 | Smith, Kyla | Lawson State Community College | Characterization of Poly-(D,L-lactic acid)/ Titania Nanocomposite Microparticles for Photocatalytic Degradation of Organic Contaminants in Water |
| 3 | Y3 | 133 | Sobie, Caelyn | Arizona State University - West | The Effect of Operations on the Deficiency of Chemical Reaction Networks |
| 4 | G4 | 64 | Stankes, Anna | University of Texas at Austin | Understanding Cyanobacteria for Agricultural Applications |
| 3 | K3 | 65 | Stephenson, Joshua | Bowie State University | Screening potential drugs against Rv0338c encoded protein expressed in Mycobacterium tuberculosis |
| 3 | V3 | 127 | Storch, Merrill | Hamilton College | Segmentation and Quantification of Mountain Glaciers' Area using Landsat Satellite Imagery for Climate Change Applications |
| 2 | A4 | 7 | Sudkamp, Alana | Pima Community College | "Bee the CURE": A course-based project to identify native bees for conservation |
| 4 | H2 | 66 | Swint, Tykia | Florida Agricultural and Mechanical University | Consumption of Vegetables to combat COVID-19 Coronavirus disease 2019 |
| 3 | L1 | 67 | Tadjuidje, Vanella | Alabama State University | Chlamydia regulates macrophage functions by inducing the suppressor of cytokine signaling proteins |
| 3 | L3 | 68 | Thompson, Eric | Alabama State University | Understanding the impact of socioeconomic status on breast cancer occurrence in Alabama |
| 4 | Y4 | 168 | Torres, Ana | Missouri State University | The Effect of Different Types of Charging Cycles and Composition on the Aging of Li-Ion Batteries for Electric Vehicles |
| 3 | M1 | 69 | Torres, James | Pontifical Catholic University of Puerto Rico | AHR and TSPO Affect the Expression of MICU2 in MLE-12 cells |
| 4 | I2 | 70 | Tran, Hoang | University of Houston | Finding Out The Appropriate Stress Urinary Incontinence (SUI) Biomarkers in Animals |
| 4 | P4 | 141 | Tripathi, Nishtha | St. Bonaventure University | Investigating Behavioral Output in Alzheimer's and Parkinson's Disease Mouse Models |
| 4 | J2 | 71 | Tucker, Aariana | Norfolk State University | An Analysis of Cannabinoids and Ammonium Nitrate Aquatic Pollution on the Morphological Development on Pre-Metamorphic Tadpoles |
| 4 | A4 | 8 | Varela, Cristofer | Baltimore Polytechnic Institute | Optimization of Methylochromium Alcaliphilum 20ZR Biomass Growth |

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| 4 | Q2 | 142 | Vargas Virella, Ana Sofia | Pontifical Catholic University of Puerto Rico | Astrocytic and Neuronal Lactate Metabolism in the Brain of Angelman Syndrome Mice |
| 2 | M4 | 72 | Walker, Dakota | Fort Valley State University | Bioengineering of Ornamental Plants Through Organogenesis and Somatic Embryogenesis |
| 3 | W1 | 128 | Ward, Michael | California State University, Northridge | Flight Rules Category Prediction Using CPC 6-10 Day Forecasts |
| 3 | M2 | 73 | Williams, Jacob | University of California, Berkeley | Depletion of polymorphonuclear myeloid-derived suppressor cells increases efficacy of Listeria monocytogenes cancer vaccine |
| 1 | W1 | 98 | Williams, Lauren | Carthage College | NMR Investigation of Micelle Formation by a Phenylalanine-based Biosurfactant |
| 2 | S2 | 105 | Williams, Steven | New Mexico State University - Main Campus | Utilizing ML and DL Techniques for Detection and Mitigation of DDoS Attacks |
| 2 | P4 | 100 | Wimberly, Theodore | Morgan State University | Exploring Computer Science Identity at the Intersections of Race And Gender and Its Impact on Black Women in the Field (A Case-Study) |
| 2 | S4 | 106 | Wireman, Joseph | East Carolina University | Sentiment Analysis of Social Media Networks in the Era of Vaccine Denial |
| 2 | N2 | 74 | Woodford, Mary-Alaysha | Center for Biotechnology, Fort Valley State University, Fort Valley, GA | Beyond RUBY: Development of the Next Generation Non-invasive Reporter Genes |
| 4 | K2 | 136 | Yakoub, Bilan | The Ohio State University | Super-Resolution Imaging of Alzheimer's Disease Hyperphosphorylated Tau Aggregates |
| 2 | N4 | 75 | Young, McKenzie | Oakwood University | Modulation of Escherichia coli chaperones by nanoparticles and natural compounds |

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