

**2024 Summer Undergraduate Research Conference**

**Schedule-at-a-Glance**

**Poster Session 1: 10-10:50am**

Registered Presenter	Program Affiliation	Poster number	Poster Title
Allen	MAOP Summer Research Internship	1	The adventure and Dynamic Based On In Game Immersion
Amin	MAOP Summer Research Internship	2	Quantum Tomography of a Single Qubit
Anderson	VT-REEL	3	Refining Tissue Culture in Potato ( <i>Solanum tuberosum</i> )
Bhan	Independent	4	Optimizing Quantification Methods for Carbon and Sulfur Impurities in Molten Salt Reactors
Assefa	MAOP Summer Research Internship	5	The Hidden World of Data Brokers: Acxiom and Beyond
Bartlett	Independent	6	Effects of Nitrogen and Calcium Nutrition on Vegetable Production
Beery	VT-REEL	7	Evaluating Cover Crop Nitrogen Uptake, Fixation, and Release
Brisbin	VT-REEL	8	Gaining insight into plant-yeast interactions regarding auxin activity through the use of fluorescence microscopy
Bryan-II	Solving Problems with Data Science	9	The Mechanics of Wing Coupling in Cicadas
Burgiss	VT-REEL	10	Chemical Defense Mechanisms in Plant-Plant and Plant-Insect Interactions
Cain	VT-REEL	11	Identifying a Chromosomal Region for Soybean Protein and Oil Content Using Molecular
Cao	Solving Problems with Data Science	12	Sensing the Issue: Methane Emissions in Dairy Cattle at Kentland Farm
Chen	BEEHIVE	13	Evaluating Gene Regulatory Network Inference Algorithms
Craine	Solving Problems with Data Science	14	Evaluating the Accuracy of the U.S. EPA's MOVES4 Model in Estimating Particulate Matter Emissions from Electric Vehicles
Crook	Solving Problems with Data Science	15	Potential Sources and Interannual Variability of Atmospheric Microplastics Deposited in South Central Appalachia
Delaporte	Independent	16	Does an association exist between retention rates and senses of belonging and care in the field of ornithology?
Dreesbach	VT-REEL	17	The effect of secondary metabolite diversity on pathogen evolution
Ergasheva	Solving Problems with Data Science	18	Leveraging AI to analyze centrosome and chromosome numbers in tetraploid cells
Fares	Solving Problems with Data Science	19	Systematic Approach for Cluster Detection of Countable Applets in Quantitative Data
Fearer	Independent	20	Examining relations between maternal intrusiveness and ADHD symptoms in children with low inhibitory control
Guerrero Perez	Independent	21	First Principles Simulation of Color-Center Defects in Lithium Fluoride for Sensing Low-Energy Nuclear Recoils
Hausler	Anne McNabb Fellowship	22	Role of Dipeptide Permease Transporters in Metabolism of Peptides by <i>Sinorhizobium meliloti</i>
Horrall	Solving Problems with Data Science	23	Monitoring Biological Aerosol Particles (BAPs) in Spruce Forest in Mauerbach, Austria
Jackson	VT Data Science for the Public Good	24	Estimating the Effect of a Utility-Scale Solar Facility on House Prices: A Case Study in Prince George County
Janjua	Solving Problems with Data Science	25	Where There's Smoke, There's AI: Advanced techniques in Smoke Plume Analysis
Jones	VT Data Science for the Public Good	26	Projecting Food Insecurity in Southwest Virginia
Linville	Solving Problems with Data Science	27	What's Wrong With my Motor? Utilizing Instantaneous Frequency to Extract Motor Component Signatures
Mach	Solving Problems with Data Science	28	Does water loss or blood pumping explain mass loss in cicada wings during adult wing development?
Matheson	MAOP Summer Research Internship	29	Disparities in Leadership and Sense of Belonging Between White and BIPOC Members of Ornithological Societies
Melia	Independent	30	Denitrifying bioreactors for legacy nitrate removal from springs in the Chesapeake Bay watershed
Miller	MAOP Summer Research Internship	31	Machine Learning-based Cybersecurity for Inverter Based Resources
Mistry	Solving Problems with Data Science	32	Development of surface-enhanced Raman spectroscopy (SERS)-based nanoprobe and machine learning models for predicting droplet pH
Molinas Hess	MAOP Summer Research Internship	33	Foveated Side-Channel Attacks on VR Rendering
O'Dowd	Independent	34	Evaluating the Effects of Traumatic Brain Injury on Cognition and Memory using the Novel Object Recognition Test
Orenuga	MAOP Summer Research Internship	35	Low-Cost, Rapidly Deployable Drone Detector to Protect Airports from Denial of Service
Rehmatulla	Solving Problems with Data Science	36	Identifying Spring Dead Spot in Bermuda Grass Using Aerial Imagery and Machine Learning
Roberts-Tsoukkas	Solving Problems with Data Science	37	Earth-Moon Cycler Orbits with a Stable Subfamily
Smedley	Solving Problems with Data Science	38	Transport of Biological Particles in the Atmosphere
Sobrado	Independent	39	Internalizing Symptoms as a Protective Factor Against Drug and Alcohol Use for Highly Impulsive College Students
Spillman	VT-REEL	40	Quantifying Differences in GHG Emissions in Biological-Treated Fertilizer and Untreated Fertilizer
Vikesland	VT-REEL	41	Transforming Cannabis sativa Leaf Discs and Meristem with Transcription Factor CsWoolly
Wasserman	VT Data Science for the Public Good	42	Deaths of Despair in Virginia: Analyzing Socioeconomic Factors and Demographics

Poster Session 2: 11-11:50am			
Registered Presenter	Program Affiliation	Poster number	Poster Title
Anthus	VT-REEL	1	Modeling and Mutating the C4-COPI Dimer in TYLCV to Inhibit Viral Infection
Battle	neuroSURF	2	Effect of Dlk1 on Neighboring Cells Analysis in the Developing Cortex of DiGeorge Syndrome Mouse Model
Chhabra	neuroSURF	3	Unveiling the Overlap: Are RNA Binding Protein ZNF326, AKAP8, AKAP8L are Functionally Redundant ?
Cross	neuroSURF	4	Retrospectively analyzing children with CASK-related disability undergoing Global Developmental Delay Intensive Therapies
Dempsey	neuroSURF EIP	5	Examining the relationship between amygdala volume and fear response in 3-month-old infants
Dessert	Independent	6	A Narrative Review of Interventions Addressing Stimming Behaviors in Autistic Individuals
Disbrow	neuroSURF	7	PDE9 Inhibition as a Therapeutic Target for Mitochondrial Quality Control in Cardiometabolic Disorders
Garrastegui Segarra	Independent	8	Ubiquitination in the prefrontal cortex as a sex-specific mechanism of fear memory formation
Habte-Mariam	neuroSURF EIP	9	Novel Combinational Therapies for Melanoma
Halvonik	neuroSURF	10	Pioneering a c-FOS Staining Approach to Map Motor Circuits
Harris	neuroSURF	11	Age Impacts Synchronous Network Activity in Mouse Model of Childhood Genetic Epilepsy
Hawkinson	neuroSURF	12	Investigating Mosquito Flight Behavior Using Virtual Reality Tools to Enhance Control Strategies
Henderson	neuroSURF	13	Comparison of Babel Brain and k-WAVE for brain modeling
Johnson	Independent	14	Time Delay due to Scattering of High Energy Supernova Neutrinos with Dark Matter
Minnivk	Independent	15	Small Angle Monitor for The Moller Experiment
Blue	MAOP Summer Research Internship	16	Visceral Notices and Privacy Mechanisms for Eye Tracking in Augmented Reality
Portis	MAOP Summer Research Internship	17	Large Language Models for Alert Investigation
Prather	MAOP Summer Research Internship	18	Classical vs. Quantum RNG in the BB84 Protocol
Ralat	MAOP Summer Research Internship	19	AskAResearcher: Transforming Research to Practice
Rechani	MAOP Summer Research Internship	20	LYMPHEDEMA
Reid	MAOP Summer Research Internship	21	Enhancing Interactive Learning through Wireless Communication Simulations
Roadman	CNP REU	22	Neutrino Emissions from Plutonium-241 and Spent Nuclear Fuel
Robbins	neuroSURF	23	Using Feeding Experimentation Device (FED3) to Evaluate Non-Motor Symptoms of Parkinson's Disease in Mice
Roberts	neuroSURF	24	Alterations in Excitatory Corticothalamic Synapses in a Dravet Syndrome Mouse Model
Robinson	MAOP Summer Research Internship	25	Polarizer changes affecting local and non-local interferometry
Rubley	neuroSURF	26	Monoubiquitination of Histone H2B decreases in the amygdala of male and female rats during fear memory formation
Sekyere	MAOP Summer Research Internship	27	Microbes vs. Preservatives: Microbial Activity in Cosmetic Products and How Preservatives Affect Growth
Shannon	MAOP Summer Research Internship	28	How Dogs Experience Loss: The Impacts of Permanent Disruption of Familial Social Structure on Age Related Decline in Canines
Si	MAOP Summer Research Internship	29	Purification of Molten Salt For Energy Storage Systems
Sigrist	MAOP Summer Research Internship	30	Purification of the MalE-McpWPR fusion protein using a pTEV cloning vector and characterization of its ligand spectrum.
Taah	neuroSURF	31	Aligning EEG and EmotiBit Data: Development of Effective Synchronization Methods
Taylor	MAOP Summer Research Internship	32	Innovative Phage-Based Strategies to Combat Virulence in Antibiotic-Resistant Salmonella Typhimurium (STm)
Trubenbach	MAOP Summer Research Internship	33	The Impact of Adsorption Materials for Passive Sampling of Aquifer Microbes
Varshney	Independent	34	AI-Enhanced Teaching Assistant: Bridging Professor Knowledge and Web Intelligence
Wallen	Hollins SURF	35	Solid Waste Management and Infectious Diseases: Exploring Perceptions in Freetown, Sierra Leone
Wang	neuroSURF	36	Mapping the functional pathways in Euchromatin-Disrupted Human Development Disorders
Wcisel	MAOP Summer Research Internship	37	Investigating an Accessible Multi-Agent Robotic System for Air Quality Monitoring in Construction Inspection
Wiley	Independent	38	Enterobacter spp. in Amended Hardwood and Softwood Biochar: Assessing the Survivability of Microbial Communities
Wiley	MAOP Summer Research Internship	39	Analyzing effect of deactivation of various genes in Salmonella Typhimurium on susceptibility to bacteriophage $\chi$
Wilson	neuroSURF	40	Investigating Phenotypic Differences of Drosophila melanogaster Ir21a Mutants
Winfield	MAOP Summer Research Internship	41	Correlation Curves and Descriptions of Quantum Entanglement
Zhang	neuroSURF	42	Investigating Chromatin Biology and Its Role In Cancers

Poster Session 3: 1-1:50pm			
Registered Presenter	Program Affiliation	Poster number	Poster Title
Abouelenein	CardioSURF	1	Investigating SARS-CoV-2 Encoded Protein Sufficiency in Phosphorylation of Connexin43
Antony Baskar	A-Lab SURF	2	A canine osteosarcoma treatment pilot study investigating histotripsy combined with immune stimulant IP-001.
Athumani	A-Lab SURF	3	The Role of BMP3 in the Pathogenesis of Pulmonary Arterial Hypertension
Ayub	Hollins SURF	4	On efforts to prepare and characterize Ph2PCH(CCL3)PPh2
Bentley	CHBR	5	Are food demand and delay discounting associated with diabetes management
Brousseau	Hollins SURF	6	The impact of perpetrator race, identification procedures, and encoding time on eyewitness identification
Burt	CUBE SURF	7	How Connections Are Made: Investigating the Role of Trust on the Relationship between Social Isolation and Mental Health and Behavioral Outcomes
Carr	MAOP Summer Research Internship	8	Fluorescence-Based Characterization of Polymer-Protein Interactions
Chan	MAOP Summer Research Internship	9	User Interface Development using CustomTkinter for Automating Python Dependency Recognition
Chipman	A-Lab SURF	10	Family Ties: Associations between Familial Relationships, Delay Discounting, and Unhealthy Behaviors in Substance Use Disorder Recovery
Cooper	MAOP Summer Research Internship	11	The Dark Side of the Screen: How Social Media Impacts Mental Health
Crum	MAOP Summer Research Internship	12	Weller's Wannabe? Investigating Possible Mimicry between <i>Desmognathus orestes</i> and <i>Plethodon welleri</i>
Cullinane	Hollins SURF	13	Community Speaks: Queer Roanoke and Verbatim Theater
Cutler	MAOP Summer Research Internship	14	Effects of Concentration of PEGDA and Exposure Time on Mechanical Properties of 4D Biomaterials
Davis	Hollins SURF	15	Public Causal Beliefs about Binge Eating Disorder
Dinakin	CHBR	16	Comparing the Labeled Magnitude Scale Trainings to Flavor Ratings
Elbash	A-Lab SURF	17	Chronic Pain and Delay Discounting: The Cognitive Struggle of Substance Use Disorders Recovery
Hopson	CHBR	18	Evaluating Human Milk Composition Fluctuations Over the First 6-Months of an Infants Life.
Kang	Fralin SURF   CHBR SURF	19	Exploring the Efficacy of Nicotine Replacement Therapy Interventions
Lathrop	CUBE SURF	20	GLP-1s Beyond Weight Loss: Social Media Insights on Discussion, Taste, and Mental Health
Lee	A-Lab SURF, CHBR	21	Differential brain morphology after UPF diet compared to nonUPF diet using voxel based morphology
Mathis-Ehlers	Hollins/Global Change Center Scholars	22	Art & Hunger: An Empty Bowls Project
Merritt	Hollins/Global Change Center Scholars	23	Studying Abroad: Continuity and Change in Study Abroad Programing and Experiences at Hollins University
Mitchem	Independent	24	Parental Perceptions on Their Children's Technology Use
Assefa	MAOP Summer Research Internship	25	Exploring Data to Support Evidence-Based Tech Hiring for GitMeter
Neres	CUBE SURF	26	Examining the Effect of Price, User Type, and Nicotine Strength on E-Cigarette Demand among Smoking Adults
Nguyen	CHBR	27	Examining the Association between Familial Relationships, Unhealthy Eating Habits, and Delay Discounting in Individuals in Recovery from Substance Use Disorder
Pierce	Hollins/Global Change Center Scholars	28	The Impact of the Russia-Ukraine War on Central Asian Republics
Otoo	MAOP Summer Research Internship	29	Technology Use in the Black Church: Perspectives of Black Church Leaders
Palmer	Independent	30	Comparative Synthesis of NaGdF4 Nanoparticles Using Acetic Acid and Oleates as Precursors
Pozo-Aranda	A-Lab SURF	31	Identifying native NMDA receptor diversity in the mouse thalamus
Rai	A-Lab SURF	32	Development of Glutamatergic Synapse in Somatosensory Thalamus Decrease in Number in Dravet Syndrome Mice Model
Rai	Hollins SURF	33	The impact of perpetrator race, identification procedures, and encoding time on eyewitness identification.
Ruppet	Hollins/Global Change Center Scholars	34	"A Push for Democracy:" The United States' Democracy Promotion in Chile, Peru, Bolivia, and Ecuador
Suber	Hollins/Global Change Center Scholars	35	Hope of Escape Research Archive (HERA)
Thompson	Fralin SURF	36	Itching for an Answer to the Late Enzymatic Steps in Poison Ivy Urushiol Biosynthesis
Varshney	Independent	37	Development of AI-assisted Chatbot for Water Monitoring Environment Lab
Whittle-Hage	Fralin SURF	38	Nanobody Protein Expression for use in a Nanosensor to detect a Pig Virus
Zaengle	Hollins SURF	39	Community Speaks
Zalenski	Fralin SURF	40	Characterization of active site mutants for <i>Acinetobacter baumannii</i> siderophore biosynthesis enzyme FbsI
Zeman	Fralin SURF	41	Elucidating the Function of a Novel Electron Transferring Protein in Methanogenic Archaea
Hasan	MAOP Summer Research Internship	42	Exploring Data to Support Evidence-Based Tech Hiring for GitMeter
Khan, Asfandiyar	CEED	43	Cross-Omics Integration in Foundation Models: Bridging Single-Cell and Bulk RNA-Seq, Proteomics, and Spatial Data

Poster Session 4: 2-2:50pm			
Registered Presenter	Program Affiliation	Poster number	Poster Title
Aronson	Fralin SURF	1	Exploring the Thermal Biology of Invasive Aedes Mosquitoes
Bhaumik	Independent	2	Ab initio properties of color center defects for mineral detection of dark matter
Chan	Fralin SURF	3	RNA polymerase A subunit deletions inhibit Brome mosaic virus replication
COPENING	Fralin SURF	4	Development of Vaginal Dilator Device for In Vivo Mechanical Testing in Murine Models
Deal	MASBio	5	Inclusion Complex Optimization Process of Amorphous Polyhydroxyalkanoates and Beta-Cyclodextrin
Detloff	Fralin SURF	6	Identifying Protein-Protein Interactions on the Bacterial Spore Membrane Surface
Docev	Independent	7	20th Century Microplastic Accumulation and Storage in Bayside Salt Marshes of the Eastern Shore, Virginia.
Fisher	MASBio	8	Using Hemp Lime in Building Materials for Carbon Sequestration
Forbes	Fralin SURF	9	Interactions of Flagellotropic Bacteriophages with Various Agrobacterium Species
Galvan	MAOP Summer Research Internship	10	Teaching Systems Engineering Fundamentals to K-12 Students through a Robotics Educational Bootcamp
Huneidi	MAOP Summer Research Internship	11	Patient Pain and Quality of Life Outcomes after Histotripsy Treatment for Canine Osteosarcoma
Huq	Fralin SURF	12	Investigating effects of media and surface hydrophilicity on type IV pilus-dependent biofilm formation
Jernigan	MAOP Summer Research Internship	13	Bioassay-guided Isolation of Antibiofilm Compounds from Marine Egg Mass Microbiota
Jones	Summer Fellows-School of Neurosci	14	The flavor enhancer Maltol potentiates RXR/Thyroid Hormone-mediated Mechanisms of Neural Development in Xenopus laevis larvae.
Judy	Independent	15	Dispersion of Aluminum Particles using Pressurized Air
Kane	MAOP Summer Research Internship	16	Quantum key distribution protocol without using classical channel communication
Kelly	MAOP Summer Research Internship	17	Examining the relationship between the goal setting behaviors of individuals with ADHD and their substance use habits
Khan	MAOP Summer Research Internship	18	Seeing the Unseen: New Tools to Measure Hidden Volatile Organic Compounds (VOC) in the Air
Knorr	CNP REU	19	Gamma Ray Spectroscopy for Neutrino Experiments
Kuhtenia	CNP REU	20	Finding Neutrons in MiniCHANDLER
Lawson	MAOP Summer Research Internship	21	Examining Home-Prepared Diets for Companion Dogs Using Data from the Dog Aging Project
Linkous	MASBio	22	Transpiration drying and associated leaf physiology of common Appalachian hardwood species used in biofuel production
Luff	Fralin SURF	23	Feeding Behavior of Male and Female Mosquitoes of Different Species with Respect to Different Sucrose Concentrations
Moore	Beckman Scholars	24	Histotripsy: Using Focused Ultrasound to Target and Treat Pancreatic Cancer
Moore	Fralin SURF	25	Low-intensity Focused Ultrasound is a Promising Noninvasive Procedure Which May Potentially Reduce Anxiety
Patel	Summer Fellows-School of Neuroscience	26	Exploring the complex relationship between aggression and testosterone in urban and rural song sparrows (Melospiza melodia)
Patton	Summer Fellows - School of Neuroscience	27	Urbanization and behavior: Does Neuropeptide Y mediate behavioral shifts among urban and rural song sparrow (Melospiza melodia) populations?
Peppers	Independent	28	Functional Analysis of HA-Tagged GR28B(D) Warmth Receptor in Drosophila
Pho	Fralin SURF	29	Adrenergic Receptor Antagonists Reduce Herpes Simplex Virus 1 Recurrences with The Presence of Epinephrine
Cioia	Independent	30	Variable Gearing In Jumping
Robinson	Summer Fellows-School of Neuroscience	31	Visual Spectral Sensitivity of Jamaican Fruit-eating bat (Artibeus jamaicensis)
Samanta	Summer Fellow- School of Neuroscience	32	Investigating the Effect of Peripheral CSF Overexpression and Psychological Stress on Macrophage Function in Ovarian Tissue
Shimozono	Fralin SURF	33	The Effect of Hypoxia on Exercise Responsive Genes in Mouse Skeletal Muscle
Stanley	Fralin SURF	34	Transcriptional Activity of Per2AS is Dampened in the Presence of its Enhancers
Strobel	Fralin SURF	35	Social Cognition Deficits as a Transdiagnostic Risk Marker of General Psychopathology
Sturgill	Fralin SURF	36	Quantifying Natural Antibody and Complement levels in House Finches through Hemolysis-Hemagglutination Assays
Taylor	MASBio	37	Effect of Modified Cyclodextrin on Polylactic Acid Inclusion Complex Formation
Wickman	MASBio	38	Assessing Regional Biomass Operations, Economics and Best Management Practices in Virginia
Wildermann	Summer Fellows-School of Neuroscience	39	Designing the Cold Pressor Task for Human Neuroimaging
Williams	Independent	40	MICROPLASTIC ACCUMULATION SINCE 1950 IN BAYSIDE AND SEASIDE SALT MARSHES OF THE EASTERN SHORE, VIRGINIA.
Winberg	National Science Foundation	41	Spider-mite adaptability in their native fibrous environments
Youngs	Beckman Scholars	42	Focused Ultrasound Modifies Tumor Microenvironment and Improves Systemic Anti-Tumor Immunity During Ablation of Pancreatic Tumors
Rogers	MAOP Summer Research Internship	43	Recombinant Protein Expression and Purification: The Isolation of Glutathione S-Transferase

Poster Session 5: 3-3:50pm			
Registered Presenter	Program Affiliation	Poster number	Poster Title
Adisalem	CEED	1	Platform design for Future Testing of a Swing Stabilization Algorithm on Hahn 130 Catwalk
Alexander	CEED	2	The Use of Generative AI in Collaborative Projects
Ashra	STEER REU	3	Studying the effect of crosslink density and chelation site hydrophobicity on the capture of rare earth elements.
Barnes	CEED	4	Exploring the potential of sigB as a rapid detection tool for Listeria directly from environmental DNA
Bechtold	CEED	5	Conformal 3D Printing on Deformable Objects with Point Cloud Path Planning
Chen	CEED	6	The relationship between online and in-store shopping demand and its connection to travel demand
Chhetri	CEED	7	Task-Oriented Time Management: Integrating Screen Tracking and Digital Resource Metadata in a To-Do List Application
Davis	CEED	8	The Impact of Water-to-Cement Ratios on the Durability and Performance of Concrete Repair-Substrate Interfaces
Deb	Independent	9	Tunable Transport In Topological Metal Mn2Au For Spintronics Applications
DeLoatch	STEER REU	10	Determining the extinction coefficient of RAFT agents for monitoring polymerizations
Dulli	CEED	11	Enhancing Resilience of Low-Rise Large Volume Structures Against Extreme Winds
Evani	CEED	12	Characterizing the Flow Field of Virginia Tech's Hypersonic Wind Tunnel
Farnsworth	Independent	13	Does Gender Impact the Association Between Mindfulness and IPV Perpetration?
Gannon	STEER REU	14	Investigating the effects of casting method and ionic liquid composition on the structural and chemical properties of molecular ionic composites.
Green	Independent	15	Fiber Reinforced Polymer Diaphragm Retrofits For Earthquake Resilience
Hahn	STEER REU	16	Use of Zirconium Metal Organic Frameworks for Photon-Upconversion in Solar Cells
Hanger	David Lyerly Foundation Undergraduate Microbiology Research Fellowship	17	Isolation of Pantoea spp. Jumbo Phages from Soil Samples
Harvey	STEER REU	18	Post-Modification of Polymer Networks for Metal Binding
Hawkins	STEER REU	19	Modification of Spns2 Inhibitors to Treat Multiple Sclerosis
Hayes	CEED	20	Development of Mechanical Engineering Related Labs for Applied Electrical Theory
Hossain	CEED	21	Understanding User and Developer Perceptions of Dark Patterns in Software
Hu	CEED	22	Utilization of Persona Creation through LLMs to Enhance Human Storytelling
Huynh	CEED	23	Persona-Based AI Web Automation: Tailored Automation of Online Tasks
Jah	CEED	24	How Do Visually Impaired Users Navigate Privacy Risks in an Ad-Driven Web?
Lin	CEED	25	Improving Vat Polymerization through Rheological Analysis of Novum Glass Particles in Photoresin
Mann	CEED	26	Identifying the Effects of Stress and Sex on Unique Pathology in Blast TBI
McCarley	Independent	27	Electrophysiological and Behavioral Factors as Predictors of Negative Emotion in Infancy and Toddlerhood
Medeck	STEER REU	28	Optoelectrical properties of chiral quasi-2D Halide Perovskites
Montemayor	Independent	29	Drosophila melanogaster larvae integrate tonicity into temperature preference
Ordoobadi	CEED	30	The Effectiveness of Data Sonification on Wind Speed during Thunderstorms
Rhudy	Neutrino Physics REU	31	Mechanical Properties of 304-Steel Springs in Cryogenic Environments
Ryder	STEER REU	32	Tuning Catalytic Efficiency of Synthetic Enzyme Kemp Eliminase 15 by Attaching a DNA Fragment
Saintile	STEER REU	33	Synthesis and electrochemical performance optimization of P2 (prismatic crystal structure) layered NaMn0.8Fe0.1Ti0.1O2
Sandberg	Independent	34	Small Scale Aluminum Combustion Ignition System
Sanna	CEED	35	Developing Pneumatic Air Muscles to be used in a Robotic Snake
Savelyev	BRIDGE Summer Grant	36	Phone Use and Gratitude Expression: Naturalistic observations of pedestrian-driver interactions
Scarpa-Friemdan	CEED	37	Ultra-High Temperature Ceramics (UHTC) Test Rig Electronics Modification and Torch Replacement
Smith	CEED	38	Sandponics: A new approach to traditional nitrification and solids removal processes in aquaponics systems
Wilsher	CEED	39	Developing a Field Programmable Gate Array (FPGA) Elevator Door Project for ECE 2804
Young	CEED	40	A Study for determining the demand for Urban Air Mobility
Zhang	Independent	41	Quantification of 3D in vivo model of embryonic mice during late pregnancy
Hernandez-Mendez	MAOP Summer Research Internship	42	Mapping and Sensor Fusions
Bowen	MAOP Summer Research Internship	43	Use of Matrix - assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry to Identify Melanoma Tumor Cells