

Place	First name	Last name	Co-Author/s	Organization	Category	Project title
1st	Manya	Bhagat	Diksha Krishnaswamy	Green Level High School	HS Behav Sci 1	Effect of Time on Consumer Behavior
2nd	Pranav	Pamula		Weddington High School	HS Behav Sci 1	Testing Visual and Auditory Reaction Times to Measure Cognitive Function
3rd	Barock	Tesfaye	Dominick Russo	Marvin Ridge High School	HS Behav Sci 1	The Use of Machine Learning in Diagnosing and Treating Child Psychopathy
1st	Gurmeher	Kaur		Chapel Hill High School	HS Behav Sci 1	On Using Foundational CS1 Curricula for Middle School Computer Programming Education
1st	Miran	Bhima		North Carolina School of Science and Math	HS Bio Sci 1	Development of small-molecule inhibitors for the cancerous mutant protein: NRAS Q61R
2nd	Laira	Lee		Marvin Ridge High School	HS Bio Sci 1	The Effects of Different NUDT15 Variants on Thioguanine Toxicity
3rd	Gianna	Cacciato	Salma Sandoval-Cruz, Rachel Titus, Keisha Bansal, Luigi Bortolussi, Madeline Beard	North Carolina School of Science and Mathematics	HS Bio Sci 1	Understanding the Changes to Heart Rate and Blood Pressure by an Experimental Timed Stressor
1st	Yunjia	QUAN		Charlotte Country Day School	HS Bio Sci 1	Neurotoxicity of GenX, a Perfluoroalkyl Substance Found in Drinking Water
2nd	Veda	Dayananda		East Mecklenburg High School	HS Bio Sci 1	Quantifying Region-Specific Cortical Volumes in a Mouse Modeling an Autism-Associated Mutation
3rd	Prabuddha	Ghosh Dastidar	Daniel Xie, Ryan Xie	NCSSM	HS Bio Sci 1	The Application of Titanium Dioxide Nanoparticles as an Anti-Cancer Agent: Discovering the Compound Effects of TiO2 on Angiogenesis of Human Umbilical Vein Endothelial Cells and Tumorigenesis Under Different Conditions
1st	Levi	Cruz		North Carolina School of Science and Mathematics	HS Bio Sci 2	Signaling Pathways During Wound Closure in Planarian Epithelium

2nd	Hannah	Mullis		East Gaston High School	HS Bio Sci 2	The Effect of Rider Ability and Movement on the Stress/Discomfort Indicating Behaviors of Hippotherapy Equines
3rd	Parth	Shirolkar		NCSSM	HS Bio Sci 2	An Investigation of the Antagonistic Effects of Rapamycin and Fructose on the Longevity of Caenorhabditis Elegans
1st	George	Cheng		Green Level High School	HS Biotech 1	Continuous Oral-fluid Glucose Type-2 Diabetes-based Monitoring Device with Near Field Communication Capability.
1st	Samanyu	Dixit		NCSSM	HS Biotech 1	Cheminformatics Analysis of the N-methyl-D-aspartate (NMDA) Receptor Neurotoxicity
2nd	Hrishika	Roychoudhury		North Carolina School of Science and Mathematics	HS Biotech 1	Development of an Anticancer agent by Green Synthesis of Biogenic Silver Nanoparticles using agri-food byproducts as a novel reducing agent.
1st	Isha	Mahadeshwar		North Carolina School of Science and Mathematics	HS Chem 2	Using an in-silico Model to Find a Novel CRF1-Receptor Antagonist
2nd	Kripa	Patel		NCSSM	HS Chem 2	Functionality of Silicon-based Amino Acids and the Implications of Silicon-based Proteins
1st	Archita	Khaire		NCSSM	HS Chem 2	Computational and Experimental Design of a Novel Acetylcholinesterase Inhibitor: Silanediols for Alzheimer's Disease Treatment
2nd	Sophie	Vaughan		NCSSM	HS Chem 2	Turmeric Derived Treatment of Alzheimer's Disease Through Inhibition of Acetylcholinesterase and Butyrylcholinesterase
1st	Meghana	Chamarty		NCSSM	HS Chem/Env Sci 1	Depolymerization of High-Density Polyethylene via Tandem Dehydrogenation and Metathesis Dual Catalyst System.

2nd	Radhika	Unnikrishnan		Weddington Higschool	HS Chem/Env Sci 1	Sustainable Fuel Cycle of the Future: Analyzing the effect of Cobalt and Copper based Catalysts in the Electrolysis of Water in an Electrochemical Cell
3rd	Kelly	Smith	Zoe Deo	Stuart W. Cramer High School	HS Chem/Env Sci 1	Crime Scene Chemistry: The Action of Luminol on Blood Stain Alternative
1st	Reva	Kumar		North Mecklenburg High School	HS Chem/Env Sci 1	Impact of anode surface area on the voltage output of a microbial fuel cell
2nd	James	Gunter		Forestview High School	HS Chem/Env Sci 1	The Effects of pH on the Growth of Hydrilla in Lake Wylie
1st	Reyansh	Bahl		Green Level High School	HS Comp Sci 1	An Ensemble Machine Learning-Based Approach for Automated Detection, Forecasting, and Type Classification of Epileptic Seizures
2nd	Sherry	Liu		NCSSM	HS Comp Sci 1	Mapping the Landscape of RNA-Sequencing Tools through Citations
3rd	Arnav	Nanda		Apex High School	HS Comp Sci 1	Identification of Cancerous and Non-Cancerous Brain Tissue using X-ray Diffraction techniques in conjunction with Uniform Manifold Approximation Projection (UMAP)
1st	Isha	Narang		Ardrey Kell High School	HS Comp Sci 1	V-Guard: A Facial/Object recognition-based Multimodal Framework for Unintentional Injury Prevention
1st	Shishira	Somashekar		North Carolina School of Science and Mathematics	HS Eng and Tech 1	Computationally Analyzing Water Distribution Networks Using Machine Learning and Internet
2nd	Asish	Madarapu	Pranav Narala	NCSSM	HS Eng and Tech 1	Diagnosing Brain Tumors Using Convolutional Neural Networks
3rd	Niharika	Thuppanna	Sahil Manglani	Green Level High School	HS Eng and Tech 1	Machine Learning: Can We Use It to Accurately Predict Heart Disease?
1st	Rishi	Saroya	Kaavya Thillaivanan	Panther Creek High School	HS Eng and Tech 2	Using Natural Language Processing Methods to Classify Public COVID-19 Misinformation

2nd	Rithinteja	Aechan	Arnav Mahajan	Green Level High Stem RC club	HS Eng and Tech 2	Translating American Sign Language using flex sensors and Arduino
3rd	Aadi	Kucheria	Kirtan Patel, Shlok Patel	Marvin Ridge High School	HS Eng and Tech 2	The Future of Keyboards: A Sustainable Implementation of Piezoelectricity
1st	Mason	Sufnarski	Josephine Barber	Marvin Ridge High School	HS Env Sci 1	Sustainable Subsistence: A Low-Cost Method of Greywater Recycling for Hydroponic Agriculture
2nd	Angela	Chen		NCSSM	HS Env Sci 1	Developing a machine learning model to predict wildfire risk and identify key climatic wildfire drivers in California
1st	Keshav	Varadarajan		NCSSM	HS Env Sci 1	Traffic Pattern Changes in New York City Because of COVID-19
2nd	Shitij	Govil	Aidan MacQueen, Garrison Payne	Summer Ventures at the School of Science and Mathematics	HS Env Sci 1	Using DEM Derivatives from Quanergy LiDAR Data to Classify Wetlands Using Machine Learning
3rd	Pratham	Madaram	Siddharth Vijaymurugan	Durham Academy	HS Env Sci 1	Evaluating the Wattage of Different Modalities of Solar Power Generation
1st	Martina	Banas		Ardrey Kell High School	HS Math 1	Modeling the Changes in the Prevalence of Complex PTSD and Comorbid Eating Disorders in Undergraduate Students from 2022 to 2032
2nd	Arya	Gupta		AKHS	HS Math 1	Repetitive Lyrics and How They Relate to Billboard Hot 100 Success
3rd	Amishi	Gupta	Keisha Bansal	North Carolina School of Science and Math	HS Math 1	Russian-Ukrainian Conflict's Impact on U.S. and Prevention
1st	Benjamin	Lu	Abhinav Gurram	Green Hope High School	HS Math 1	Utilizing Mathematical Modeling Techniques to Evaluate the Most Compatible Battery Storage System for Households Based on Personalized Factors and Circumstances
1st	Aniketh	Kolla		Green Level High School	HS Physics 1	An Automated Solution For Noise Analysis in LIGO Gravitational Wave Data
2nd	Pranet	Sharma		NCSSM	HS Physics 1	Novel Evidence for WHIM in Abell 1795 Using X-ray Absorption Spectroscopy

3rd	Qizheng	Xie		NCSSM	HS Physics 1	Discovering the relationship between the cross-sectional angle of an L-shaped leaning beam and the maximum compressive stress it can experience
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