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**REGENERON SCIENCE  
TALENT SEARCH  
2026 SCHOLARS**

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# **2026 SCHOLARS**

The Regeneron Science Talent Search (Regeneron STS), a program of Society for Science, is the nation's most prestigious science and math competition for high school seniors. Alumni of STS have made extraordinary contributions to science and hold more than 100 of the world's most distinguished science and math honors, including the Nobel Prize and the National Medal of Science. Each year, 300 Regeneron STS scholars and their schools are recognized. From that select pool of scholars, 40 student finalists are invited to participate in final judging, display their work to the public, meet with notable scientists and compete for awards, including the top award of \$250,000.

**ARIZONA****Chandler****Arizona College Preparatory High School****Wu, Brad, 17**

A Brain-Computer Interface-Driven Forearm Exoskeleton With Adaptive Neuroregulation-Based Feedback for Stroke Rehabilitation

**Tucson****Tanque Verde High School****McGill, Finnegan, 18**

A-BiRD: An Automated Bird Recognition Device for Acoustic Monitoring and Conservation

**University High School****Liu, Louis, 17**

FallPoint: Fall Detection With 4D mmWave Radar Using PointNet and a Recurrent Neural Network

**Yuma****Harvest Preparatory Academy Yuma****Covarrubias, Jorge, 17**káktosPatch: Monitoring Necrosis in *Carnegiea gigantea* (Saguaro Cactus) Using an Engineered Smart Bandage and Mobile Application**ARKANSAS****Hot Springs****Arkansas School for Mathematics, Sciences, and the Arts****Vidal, Luis, 18**

Designing Substrates To Test HELB as a Potential Therapeutic Agent Against Glioma and Colon Adenocarcinoma

**Little Rock****Little Rock Central High School****Sridharan, Siddharth, 18**

The Neurobiology of Voluntary Exercise: A Novel Approach To Alleviate Chemobrain by Promoting Hippocampal Neurogenesis

**Little Rock Central High School****Tang, Eric H., 18**Comparison of the Presence of Heavy Metal Resistance Genes in *Salmonella enterica* and Their Association With Antibiotic Resistance**CALIFORNIA****Atherton****Menlo Atherton High School****Shivakumar, Shawnak, 17**

Drugging the Undruggable: AI-Enabled Discovery of a Novel Cryptic Pocket and Inhibitors in Oncogenic eIF4E

**Calabasas****Viewpoint School****Shivakumar, Rohan, 17**

A Novel Early-Warning Signal of Wildfire Spread Using Vegetation Stress at the Edge of Fire Fronts

**Campbell****Westmont High School****Mohanty, Yashnil, 17**

Physics-Guided Neural Forecasts of Nearshore Harmful Algal Blooms in the California Current System

**Carpinteria****Cate School****Zhang, Alex, 18**

Prometheus: A Recursively Self-Improving NAS System

**Cerritos**

**Cerritos High School**

**Ge, Yujun, 18**

Transforming Assistive Communication: An AI and NLP-Powered Machine Learning Framework for Contextual AAC

**Cupertino**

**Cupertino High School**

**Nawani, Paarth, 18**

A Low-Cost Non-Mydriatic Retinal Imaging System With a Multistage Deep Learning Pipeline for Automated Screening of Glaucoma

**Monta Vista High School**

**Niu, Lindsey Liang, 17**

Developing PDMS Microfluidic Sensors for Precise Micro Blood Flow Measurement To Advance Cardiovascular Diagnosis in Low-Income Regions

**Monta Vista High School**

**Pahuja, Suhani, 17**

Long-Term Cardiovascular and Mortality Risk in Patients With Preexisting Arrhythmia Post SARS-CoV-2 Infection

**Fremont**

**BASIS Independent Fremont**

**Lum, Kai, 17**

Extremal Structural Results for Feedback Arc Sets and Graph Inversions

**Mission San Jose High School**

**Chopra, Ryka, 17**

Designing Incentive-Compatible Cooperation for the Global Commons: A Reinforcement Learning-Integrated Mechanism Design Framework for Arctic Conservation

**Irvine**

**Arnold O. Beckman High School**

**Low, Anthony, 17**

A Novel 0D/2D Composite Phase Change Material for Thermal Management in High-Performance Computing

**Northwood High School**

**Alexis, Sebastian Rae, 17**

A Novel Framework for Stegomalware Detection Using Kolmogorov Complexity

**Northwood High School**

**Low, Lauren, 18**

A Novel Sparse-IMU Convolutional Neural Network for Real-Time Hip Kinematics in Exoskeleton-Augmented Gait

**Woodbridge High School**

**Miller, Alexander, 17**

Universal Quantum Error Mitigation via Random Inverse Depolarizing Approximation

**Laguna Beach**

**Laguna Beach High School**

**Tran, Zoe, 17**

Development of a Novel Co-Expression-Dependent Direct Protein Interaction Mapping Method

**Los Altos**

**Los Altos High School**

**Du, Jonathan, 18**

An Unrestricted Notion of the Finite Factorization Property

**Los Angeles**

**Marlborough School**

**Chen, Rachel, 18**

The Dual Canonical Basis in the Spin Representation via the Temperley-Lieb Algebra

**Los Gatos**

**Los Gatos High School**  
**Balasingam, Pravin, 17**  
 Novel Machine Learning Approach To Identify Brain-Behavior Relationships for Core Autistic Traits

**Los Gatos High School**  
**Wang, Lucas (Zihe), 17**  
 InnoColor Edge: A Real-Time Wearable System With Distilled Vision Transformer-Guided Recoloring for Color Vision Deficiency

**Mission Viejo**

**Trabuco Hills High School**  
**Cheng, Bing, 18**  
 Increasing Propeller Performance: Investigating the Optimization and Potential of a Novel Propeller Concept Through Computational Fluid Simulation, Experimental Testing Rig and Commercial Drone Integration

**Newport Beach**

**Sage Hill School**  
**Yan, Jonathan, 18**  
 Bioinformatic Analysis of Metastasis-Associated Metabolic Landscape Reveals an Oncogenic Role for the Transsulfuration Pathway

**North Hollywood**

**Harvard-Westlake School**  
**Cheng, Lisa, 17**  
 Structure-Based D-Peptide  $\alpha$ -Synuclein Inhibitor: Tackling Solubility, Specificity and Bioavailability Challenges in Parkinson's Disease Therapy

**North Hollywood High School**  
**Ohshima, Suzuko, 18**  
 Biophysical Characterization of SUN2-Pro-Macrobody Interactions Elucidates Multimerization Dynamics and Complex Stability

**Oakland**

**The College Preparatory School**  
**Sastry, Samuel Siddhartha, 18**  
 Folding and Reconfiguration of DNA Origami Book Structures

**Palo Alto**

**Henry M. Gunn High School**  
**Tatavarty, Kaavya, 17**  
 Personalized Cloud-Based Semg-to-Haptic System To Enable Long Distance Communication for Usher Syndrome

**Pasadena**

**Polytechnic School**  
**Zhang, Kelly J., 18**  
 Sentinel-2 Image Classification of Mangrove Populations Change From Cyclone *Amphan* To Locate Communities in the Sundarbans Most Affected

**Rolling Hills Estates**

**Palos Verdes Peninsula High School**  
**Anand, Anish, 18**  
 A Novel Wireless Charging System for Pacemakers Using 2.4 GHz EM Waves

**Palos Verdes Peninsula High School**  
**Kwon, Aiden, 18**  
 Revolutionizing Turbulence Studies: Novel Low-Cost Zero Mean-Flow Chamber Design and Computational Analysis of Reynolds Stress Tensor

**San Diego**

**Canyon Crest Academy**  
**Chalamalasetty, Abhiram, 17**  
 TubercuProbe: A Cross-Attention Graph-Sequence Model for Prioritizing Compound Probes in *Mycobacterium tuberculosis*

**Canyon Crest Academy**

**Dagar, Arnav, 17**

ARFSNet—Deep Learning for Amblyopia Risk Factor Screening

**Canyon Crest Academy**

**Luo, Anna, 17**

Allelopathic Effects of *Cynara cardunculus* on Native Coastal Sage Scrub Species

**Canyon Crest Academy**

**Rezaei, Ryan Sean, 18**

Omni-Prot: Unifying Protein Function Prediction With PLM-Centric Fusion

**Del Norte High School**

**Chen, Hayden, 17**

A Novel Framework for the Discovery of MAP Kinase-Activated Protein Kinase 2 (MAPKAPK2) Inhibitors Using a Multi-Feature Deep Learning Ensemble

**Westview School**

**Fan, Leanne, 18**

Photobiomodulation on In Vivo and In Vitro Wound Models Under Simulated Microgravity for Future Space Travel

**Westview School**

**He, David Zhang, 18**

An Integrated Analysis of Marine Polyurethane Microplastic Degradation With Genetically Engineered Bacterial Biofilms

**San Jose**

**Archbishop Mitty High School**

**Kadakia, Varini, 17**

Autonomous Drone-Based System for Outdoor Air Pollution Mitigation

**Bellarmine College Preparatory School**

**Lu, Kevin, 17**

AEGIS: Security Sandboxing Meets Mechanistic Interpretability To Defend Against Prompt Injection Attacks

**Evergreen Valley High School**

**Wei, Mary, 18**

A Fast and Accurate Method for Numerical Integration of Bandwidth-Limited Signals

**Leland High School**

**Nguyen, Max Hung, 17**

Star2Planet: Decoding and Predicting the Stellar Signatures of Planet Formation

**Lynbrook High School**

**Bandugula, Abhigya, 18**

Comparison of RNA-Seq Data From Primary and Recurrent Acute Myeloid Leukemia Patients

**The Harker School**

**Ghane, Cyrus, 17**

Toward a Unified Model of the Macaque Cortex With Multi-Scale Spatiotemporal-Neurochemical Integration

**The Harker School**

**Gupta, Danika, 17**

Using AI To Clean Water: Leveraging Large Language Models for Mycoremediation Data Extraction and Modeling

**The Harker School****Shi, Lily, 17**

Enhancing Medical Explainability in Deep Learning for Age-Related Macular Degeneration Diagnosis

**The Harker School****Shivakumar, Aditya, 18**

Ultra Low-Cost, Field-Deployable Arsenic(V) Detection and Adaptive Hotspot Mapping With Methylene Blue-Gold Nanoparticle Colorimetry and Smartphone Spectroscopy

**The Harker School****Zhang, Evan, 17**

Self-Sensing Hydraulically Amplified Self-Healing Electrostatic Artificial Muscles With AI-Driven Control for Cardiac Assist

**San Mateo****The Nueva School****Chu, Colin Jie, 18**

Frequency-Based Parameterization of Semi-Empirical Models for State-of-Health Estimation in Lithium-Ion Batteries in Electric Vehicles

**The Nueva School****Liang, Frances, 17**

PLI-Analyzer: A Novel Platform for Quantitative Assessment of Structural and Biological Accuracy in AI-Predicted Protein-Protein Complexes

**Saratoga****Saratoga High School****Li, Ella, 18**

Developing a High-Resolution, Cost-Effective, Saliva-Based HLA Typing Method With Long-Range PCR To Detect Autoimmune Disease Susceptibility

**Saratoga High School****Woo, Nolan H., 18**

A Comparative Study of AI and Human Programming on Environmental Sustainability

**Stanford****Stanford University Online High School****Agrawal, Lakshmi, 18**

Stormwater Remediation of 6PPD and 6PPD-Quinone Using Citric Acid and Aluminum-Crosslinked Nanocellulose Hydrosponges

**Sunnyvale****The King's Academy****Chen, Shin-En, 17**

Characterization of HBV-Host Junction Profile by HBV-Targeted NGS in Urine for Early Detection of Recurrent Hepatocellular Carcinoma and Disease Management

**Temple City****Temple City High School****Hu, Neil Xuan, 17**

Development of an Innovative System To Reduce Ultrafine Particle Ingress Into Vehicle Cabins

**Thousand Oaks****Thousand Oaks High School****Papavasiliou, Lila Lewis, 18**

Identifying the Existence of Unconscious Gender Bias in the Perception of Political Speakers Using EEG

**Woodland Hills****William Howard Taft High School****Nabat, Seth Jacob, 18**

Learning Broken Symmetries With Approximate Invariance: A Novel Dual-Subnetwork Approach to Classifying Particle Collision Events

**Yorba Linda**

**Yorba Linda High School**

**Lin, Jia Tong, 17**

Walking Assistant: Automated Exoskeleton With Flexible-Rigid Coupled Hip Joint and Spine

**COLORADO**

**Boulder**

**Fairview High School**

**Xu, Jenny Zhang, 18**

CaraG Nanoparticle, a Novel CRISPR/SaCas9 Delivery Vehicle To Disrupt *ANGPTL3* and *PCSK9* Genes for Hypercholesterolemia Treatment

**Colorado Springs**

**William J. Palmer High School**

**Muro, Natalie, 18**

A Novel Field-Based Approach to Reducing Harmful Algal Blooms in Freshwater Ecosystems

**Greenwood Village**

**Cherry Creek High School**

**Arun, Shruti, 18**

On the Double of an Endymion Algebra in Characteristic 2

**Highlands Ranch**

**Rock Canyon High School**

**Bhatia, Mishika, 17**

Saw Palmetto-Induced Inhibition of the 5 $\alpha$ -Reductase Pathway as a Clinical Treatment for PCOS Symptoms

**Thornton**

**Stargate School**

**Cao, Tristan Rei, 18**

Tailoring Quantum Phases via Magneto-Synthesis in a Spin–Orbit-Coupled Trimer Lattice

**CONNECTICUT**

**Greenwich**

**Greenwich Country Day School**

**Taylor, Cooper, 18**

Lightweight Modular Dual-Tilt VTOL UAV: Design, Validation and Long-Endurance Performance

**Greenwich High School**

**Jin, Henry, 18**

Bridging the Sim-to-Real Gap in Autonomous Drone Control via Curriculum-Scheduled Domain Randomization

**Stamford**

**King School**

**Wang, Leon, 17**

Repurposing Idiopathic Pulmonary Fibrosis Drugs To Treat Vascular Alzheimer's Dementia: A Safe, Effective and Accessible Approach to Alzheimer's Treatment

**Wallingford**

**Choate Rosemary Hall**

**Guo, Johnny, 18**

Global Spatiotemporal Analysis of Interactions Between Urban Heat Islands and Heat Waves

**Westport**

**Staples High School**

**Francis, Nolan John, 18**

Vitamin D3 Supplementation Ameliorates Muscle Degeneration Through Calcium Regulation in a *Caenorhabditis elegans* Model of Duchenne Muscular Dystrophy

## Windsor

**The Loomis Chaffee School****Liu, Jiayi Michael, 18**

Differentiation and Functional Evaluation of Human-Induced Pluripotent Stem Cell (hiPSC)-Derived Cerebral Organoids To Model the AUTS2 Variant

**DISTRICT OF COLUMBIA**

## Washington

**Jackson Reed High School****Can, Thanh, 17**

Measures on Colored Binary Tree Structures and Applications to Tensor Categories

**FLORIDA**

## Fort Myers

**Dunbar High School****Fernando, Nishini, 18**

Comprehensive In Vitro Evaluation of Antidiabetic, Antioxidant, Cytotoxic and Wound-Healing Activities of Six Native Plant Species: Prelude to Novel Drug Discovery

## Gainesville

**Frazer School****Ngo, Bach, 17**

Hexaissa: Deep Strategic AI for Complex Real-World Decision Making

## Land O'Lakes

**Academy at the Lakes****Lau, Darren, 18**AuRING: A Novel Augmented Reality Intraoperative Neurosurgical System Using a Dual Discriminator Bayesian-Structural Similarity Generative Adversarial Network (D<sup>2</sup>BS<sup>2</sup>GAN) for Real-Time Brain Shift Compensation

## Merritt Island

**Edgewood Junior/Senior High School****Natarajan, Sharanya Sanjay, 18**

An Integrated Detection and Delivery System To Abate Contaminants in Water Bodies

## Miami

**Miami Palmetto Senior High School****Guan, Michael, 18**

Feature-Based Multi-Modal Machine Learning for Diabetes Classification in AI-READY

## Osprey

**Pine View School****Dash, Rohan, 17**

Controllable Multi-Objective Neural Architecture Search via Decision Transformers

## Oviedo

**Oviedo High School****Santra, Moitri, 16**

Development of an Industrially Viable Neutral pH Oxytetracycline Nanocarrier for Citrus and Stone Fruit Disease Management

## Plantation

**American Heritage School****Andre, Noah-Duro Christopher, 18**

Isolating, Screening and Identifying Bacteria and Fungi Found Within Mangrove Soil in Florida for Accessible Antimicrobial Natural Products

**American Heritage School****Duffy, Isabel Kelly, 18**Laccase-Mediated Degradation of Polyethylene and Polystyrene via Invasion and Ingestion by *Pleurotus ostreatus*

**American Heritage School**

**Duffy, Patricia, 18**

Neuroprotective Effects of Astaxanthin in *Caenorhabditis elegans* Amyotrophic Lateral Sclerosis Models

**American Heritage School**

**Iyer, Anagha Lakshmi, 17**

A Novel Approach to Sustainable Concrete Engineering: Mechanochemical Activation of Local Waste Materials for CO<sub>2</sub> Reduction

## GEORGIA

### Atlanta

**The Westminster Schools**

**Ganesh, Samanyu Krishna, 18**

Characterizing Variations in the Ruelle Zeta Function Under Conformal Perturbations to the Metrics of Negatively Curved Riemannian 2-Manifolds

### College Park

**Woodward Academy**

**Agrawal, Avyakt, 17**

A Novel Adaptive Learning Framework Integrating Item Response Theory, Bayesian Knowledge Tracing and Deep Learning With Confidence-Calibrated Feedback Cumming South Forsyth High School

**Kothagundla, Soneesh, 17**

Hard To Reach or Hardly Reached? Investigating Use of Lung Cancer Screening Among Eligible U.S. Adults Receiving Other Cancer Screenings

### Lawrenceville

**Gwinnett School of Mathematics, Science, and Technology**

**Guo, Andrew, 18**

Investigating the Role of Intrinsic snoRNA Properties on Ribosomal RNA Modification Heterogeneity

### Suwanee

**Peachtree Ridge High School**

**Lee, Eun Jae, 18**

Silent Signals: Boronic Acids Quench *E. coli* Quorum Sensing

## ILLINOIS

### Aurora

**Illinois Math and Science Academy**

**Prasad, Karthik, 18**

On Yetter-Drinfeld Modules Over the Pansera Algebras

### Chicago

**Lane Technical High School**

**Landeros, Diego Benjamin, 18**

Targeted Nitroisoxazole-Based GPX4 Inhibitor Drug Conjugate for Ferroptosis Induction in Chemoresistant Tumors

**Latin School of Chicago**

**Gitelson, Scarlet, 17**

Detecting Stellar and Disk Winds Through Absorption Spectroscopy of Black Hole High Mass X-Ray Binary Cygnus X-1

**Whitney Young Magnet High School**

**Xin, Keith, 18**

High-Capacity Al<sup>3+</sup>/Fe<sup>3+</sup>-Crosslinked Nanocellulose Hydrogels for Arsenite Removal: A Zero-Waste Approach to Water Remediation

**IOWA****Iowa City****West High School****Fan, Winston Derek-Xu, 18**

PsychSPT: A Novel AI System for Mental Health Assessment Using Large Language Models (LLMs)

**West High School****Sami, Shanza, 17**

SPECO: A Novel Multiparametric Methane Forecasting and Mitigation System Using Quantum Long Short-Term Memory and Sonophotoelectrochemical Oxidation

**KENTUCKY****Lexington****Paul Laurence Dunbar High School****Hariprasad, Karthika, 17**

A Novel Skin Cancer Detector Using Machine Learning

**Louisville****duPont Manual Magnet High School****Ramesh, Vallabh, 18**

Next-Gen Smart Materials: Thermo-Responsive and Conductive 3D Printable Polymer Gels for Diverse Applications

**LOUISIANA****Shreveport****Caddo Parish Magnet High School****Trutschl, Maya Julia, 18**

Automated Prediction and Prevention of Pressure Injuries Using Machine Learning and Thermal Sensing: A Clinical Validation Study

**MARYLAND****Ellicott City****Centennial High School****Cao, Albert, 18**

Machine Learning Prediction of On/Off Target-Driven Clinical Adverse Events

**Centennial High School****Liang, Sophia, 17**

Pharmacologic Soluble Guanylate Cyclase Activation for Suppression of Epithelial-Mesenchymal Transition in Retinal Pigment Epithelial Cells: Implications for Wet Age-Related Macular Degeneration

**Poolesville****Poolesville High School****Dong, Angela, 18**

Teaching Robots New Tasks With One Picture (TROP): A Use Case Development Using Edge AI Perception

**Poolesville High School****Rifai, Azimullah, 18**

Identification and Functional Validation of Single-Cell Resolved Myeloid Reprogramming Drivers in the Prostate Cancer Bone Metastatic Niche

**Poolesville High School**

**Yu, Alyssa, 17**

When Epidemics Meet: Understanding Spatiotemporal Interactions of Two Pathogens on Metapopulation Networks via Reaction-Diffusion Dynamics

**Rockville**

**Thomas S. Wootton High School**

**Liu, Mason, 18**

Developing a Novel BMS-986158 and Flavopiridol Combination Therapy for Treating Pediatric Brain Tumors

**Silver Spring**

**Montgomery Blair High School**

**Dorobantu, Andrei, 17**

Single-Cell Machine Learning Identifies Functionally Distinct Cytokine Families in Macrophages

## MASSACHUSETTS

**Andover**

**Andover High School**

**Sun, Kevin William, 17**

Printing 2D MXene-Based Chipless Radio Frequency Identification Tags To Enable Plastic Waste Sorting for Recycling

**Boston**

**Boston Latin School**

**Chan, Alexander Ang, 18**

Gut Microbial Composition and Function Associated With Antidepressant Response: Evidence From a Community-Based Cohort of Older Adults

**Byfield**

**The Governor's Academy**

**Bace, Matthew, 18**

Protecting Native Forest Ecosystems: Using AI-Powered Drones for Identifying and Mapping Invasive Insect Populations

**Cambridge**

**Cambridge Rindge & Latin School**

**Huybers, Pax Lu, 18**

Estimating Ocean Wind Speed From Sea Surface Imagery Using Convolutional Neural Networks

**Lexington**

**Lexington High School**

**Han, Michael, 18**

Improved Bounds for Novelty Games

**Lexington High School**

**Lee, Jooa Zoe, 18**

Multi-Omics Identification of SDHA Amplification as a Non-Invasive Biomarker in Saliva-Derived ctDNA From Non-Smoker Lung Cancer Patients

**Lexington High School**

**Xu, Jerry, 17**

A Unified Protein Embedding Model With Local and Global Structural Sensitivity

**Newton Centre**

**Newton South High School**

**Yan, Sophia, 17**

Mapping Enhancer-Gene Interactions in the Human Brain Reveals Reduced Use of Enhancers for Synaptic Genes in Schizophrenia

**Southborough**

**St. Mark's School**  
**Jiang, Congyi Lucas, 17**  
 Design of an Ergonomic Active Spinal Exoskeleton for Lifting Assistance

**West Roxbury**

**The Roxbury Latin School**  
**Kesselheim, Maxwell, 18**  
 Framing Policy Through Humor: A Computational Analysis of Reddit Memes

**MICHIGAN****Bloomfield Hills**

**Cranbrook Kingswood School**  
**Wei, Haodong, 18**  
 LLM-Powered, Chain of Action (CoA)-Based, Multi-Agent Collaboration for Hexapod-Drone Systems

**Cranbrook Kingswood School**  
**Zhang, Shaohuan, 18**  
 Generalizations of the Zesting Construction

**Northville**

**Northville High School**  
**Gong, Jiaxuan, 18**  
 Gaussian-Process Generative Model for the QCD Equation of State

**Northville High School**  
**Luo, Emma, 17**  
 Steep Monetary Delay Discounting in Opioid Use Disorder: Application of the Rachlin Hyperbolic Model

**Troy**

**Troy High School**  
**Zhou, Eric, 18**  
 Adaptive DAG-Based BFT Consensus Protocols Using Machine Learning

**MINNESOTA****Elk River**

**Elk River Area Senior High School**  
**Sivaraj, Indira Rajyalakshmi, 16**  
 Uncovering Atomic-Level Insights in Metabolic Drug-Target Receptors Using Interpretable Machine Learning

**Saint Paul**

**St. Paul Academy and Summit School**  
**Westemeier, Huxley, 18**  
 Integrity: Generalized Artificial Image Classification With Noise Domain Localization

**Woodbury**

**East Ridge High School**  
**Huang, Angie, 18**  
 Entanglement Sudden Death via Repeated Entanglement Swapping

**MISSOURI****Saint Louis**

**Ladue Horton Watkins High School**  
**Lin, Aaron, 17**  
 The Geometry of a Counting Formula for Deformations of the Braid Arrangement

## NEW HAMPSHIRE

### Concord

**St. Paul's School**  
**Xie, Anfeng, 18**  
An Energy-Generating and Power-Storing Seashell: An Innovative Attempt To Increase Power Output While Lowering Cost

### Exeter

**Exeter High School**  
**Osadsky, Viktor, 18**  
Scoring Radiography Collimation: Quantifying Background Impact Using Neural Networks

**Phillips Exeter Academy**  
**Sobeih, Sebastien, 18**  
The Cross-Dependent PDFS Model and Its Application: Smagorinsky-LES Inspired Subgrid-Scale Models and Multiscale Cascade for Transfer of "Volatile Energy" Within Financial Markets

**Phillips Exeter Academy**  
**Song, Andy, 19**  
Investigating the Molecular Mechanisms of TCERG1 SNP rs79727797 in Modifying Huntington's Disease Onset

**Phillips Exeter Academy**  
**Zhang, Celine, 18**  
Designing Zero-Knowledge Proofs for Agent Motion Planning

## NEW JERSEY

### Edison

**John P. Stevens High School**  
**Santhana Gopalan, Akshat, 18**  
TARGen: Novel Target-Aware Deep-Generative Framework for De Novo Therapeutic Antibody-Design Develops Antibodies Targeting the Dark Kinome

**John P. Stevens High School**  
**Yilmaz, Berkay, 17**  
DNA Chalk: Calcium Carbonate-Functionalized DNA Tensegrity Triangle Crystals for Targeted Drug Delivery

### Hackensack

**Bergen County Academies**  
**Dharani, Mythreya, 18**  
I2-CISSL: An Interpretable Machine Learning Framework for Robust and Practical Prediction of Cisplatin Response in Human Tumors

**Bergen County Academies**  
**Ding, Bryan, 18**  
Adipocyte-Like Cells as a Novel Source of Myofibroblasts in Pulmonary Fibrosis

**Bergen County Academies**  
**Jiang, Claire, 18**  
A Novel In Vitro Cell Culture Model for Juvenile Idiopathic Arthritis

**Bergen County Academies**  
**Kang, Edward, 17**  
RetinaMind: Convergent In Silico and In Vitro Evidence for the Retina as a Novel Biomarker in the Early Diagnosis of Neurodevelopmental Disorders

**Bergen County Academies****Tran, Uyen, 19**Effect of Tamoxifen and 17- $\beta$ -Estradiol on Lung Adenocarcinoma Proliferation:  
What Do We Know About the Role of Sex Hormones in Lung Cancer?**Jersey City****McNair Academic High School****Addanki, Meghana, 17**Efficient Energy Harvesting Using Biomaterials: Fabrication of a ZnO-Modified Eggshell  
Membrane and Cotton Fabric-Based Piezo-Tribo Hybrid Generator**McNair Academic High School****Kota, Mythili Venkata, 17**Engineering a Novel Electrochemical Biosensor Using a Self-Healing ZnO Quantum Dot  
Matrix With MIP Technology for Lysozyme Detection**Lawrenceville****The Lawrenceville School****Yu, Qiuen, 18**Advancing Phytoremediation of PFAS in Biosolids: Soil Condition Optimization  
and Nutrient Preservation**Lincroft****High Technology High School****Arni, Rohan, 17**

Using Deep Learning for Robust Classification of Fast Radio Bursts

**Livingston****Livingston High School****Arun, Adhithi, 18**Platelets Promote Multiple Myeloma Cell Survival and Immune Evasion Through Soluble  
Factors and NK Cell Modulation**Millburn****Millburn High School****Wang, Alexander, 18**

Bounds on the Number of Edges in Visibility Hypergraphs

**Princeton****Princeton High School****Kapoor, Saurish, 17**A Deep Learning Approach for an Early and Non-Invasive Diagnosis of Cardiovascular  
Disease in Cattle Using Retinal Fundal Images**Princeton High School****Nayden, Eleanor, 18**Impact of Political Allegiance on H-1B Visa Acceptances to the U.S.: An Analysis of the  
Relationship Between UNGA Voting Alignment and H-1B Visa Acceptances to the  
United States**Summit****Kent Place School****Zhang, Olivia Du, 17**Adipocyte-Derived Extracellular Vesicles Reprogram Tumor Cells and Drive Stemness  
in Triple-Negative Breast Cancer**Swedesboro****Kingsway Regional High School****Corey, Mason, 17**AI-Powered Thermal Fingerprinting: Predicting PLA Tensile Strength Through  
Schlieren Imaging**Woodbridge****Woodbridge Academy Magnet School****Tyagi, Atharva, 18**From Mutation to Cure: A Prime Editing Approach to Universal Genetic Rescue in Familial  
Hypercholesterolemia

## NEW YORK

### Ardsley

#### Ardsley High School

**Karthikeyan, Khushi, 18**

The Supermassive Problem: Probing Potential Stellar Formation Pathways of Intermediate-Mass Black Holes

#### Ardsley High School

**Tomioka, Serina, 17**

Characterizing the Spatial Dynamics of CD44 and Amyloid-Beta Plaques in Human Alzheimer's Disease Brain

### Armonk

#### Byram Hills High School

**Charney, Max, 18**

Harnessing Millions of Consumer Reviews To Reveal Societal Trends at an Unprecedented Scale: Two Proof-of-Concept Studies for a Novel Computational Social Science Approach

#### Byram Hills High School

**Coady, Lindsay, 17**

The Identification of Anti-Complement Autoantibodies in Schizophrenia: A Novel Gene by Environment Hypothesis of Autoimmunity in Neuropsychiatric Disorders

### Bellmore

#### John F. Kennedy High School

**Stern, Cole Jacob, 17**

Investigating the September 29, 2023, Tri-State Flooding Event: A WRF-Based Analysis of Tropical Storm Ophelia, Elevated Sea Surface Temperatures and Their Role in Enhancing Extreme Rainfall

### Briarcliff Manor

#### Briarcliff High School

**Malioneck, Elias, 18**

The Effects of Education of Interpersonal Relationships and Positive Masculinity in a Group Environment Led by a Same-Sex Peer With Adolescent Males on Depression, Self-Esteem and Ideologies of Masculinity

### Bronx

#### Bronx High School of Science

**Igel, Liah, 17**

Human Cell-Based Assay and Mouse Tissue Analysis To Study FSHR Signaling in Parkinson's Disease

#### Bronx High School of Science

**Krasinski, Aaron Eli, 18**

A Novel Deep Learning Approach to the Health Crisis of Industrial Production in Space: Neural Network Classification and Glymphatic Biomarker Analysis of Spaceflight-Associated Neuro-Ocular Syndrome for Pre-Flight Crew Screening

#### Bronx High School of Science

**Land, Sam, 17**

Novel Characterization of COMT Gene Polymorphism Effects on Resting-State fMRI Network Segregation: A Breakthrough for Personalized Mental Health Treatment

#### Bronx High School of Science

**Lin, Helen, 18**

Human Intervertebral Disc Degeneration, Sex and Aging Increase Alpha-1 Antitrypsin Expression in Intervertebral Discs

#### Bronx High School of Science

**Wu, Xi Zhen, 18**

Exploring the Potential of Inhaled Tadalafil Liposomes for Pulmonary Arterial Hypertension

**Brooklyn**

**Brooklyn Technical High School**  
**Gordon, Alisa Victoria, 17**  
 The Effects of Acute and Chronic Sleep Deprivation on Metabolic Dysregulation via AgRP Neuronal Activity in the Arcuate Nucleus

**Brooklyn Technical High School**  
**Nostro, Olivia Grace, 17**  
 Effects of Non-Pharmacological Treatments on Seizure Duration in Bang-Sensitive *Drosophila melanogaster* Mutants

**Chappaqua**

**Horace Greeley High School**  
**Fu, Warren, 17**  
 Biophysical and Genomic Drivers of Targeted Therapy Resistance: Analysis of Growth Dynamics in Non-Small Cell Lung Cancer

**Horace Greeley High School**  
**Guo, Kevin, 17**  
 Development of an Antibody-siRNA Conjugation Method and Internalization Assay for High-Throughput Screening

**Horace Greeley High School**  
**Wang, Brady, 18**  
 Generation of Antibody Oligonucleotide Conjugates Using a Novel Conjugation Technology

**Dix Hills**

**Half Hollow Hills High School West**  
**Huang, Benson Lu, 17**  
 BLADE: Bioimpedance-Enabled Laparoscopic Articulated Dual-Purpose Endowrist System for Force Sensing and Anomaly Detection in Robotic Surgery

**East Setauket**

**Ward Melville High School**  
**Xing, Tina Shuxin, 17**  
 Carbon-Aware Reserve Allocation and Checkpoint Scheduling for GPU Sustainability

**Fresh Meadows**

**St. Francis Preparatory School**  
**Wang, Yanchen, 17**  
 Characteristics and Risk Factors of Anomalous Sleep Experience (Sleep Paralysis) in American Adolescents

**Great Neck**

**John L. Miller Great Neck North High School**  
**Li, Sophia, 18**  
 Closing the Shade Gap: Advancing Environmental Equity Through Understanding Tree Canopy Disparities in Redlined Communities With i-Tree

**John L. Miller Great Neck North High School**  
**Soleymani, Kian Daniel, 17**  
 AI-Powered Conversational Tool for Early Stage Cognitive Decline

**William A. Shine Great Neck South High School**  
**Pemmaraju, Arnav, 18**  
 CRE-LogicSim: A Surrogate Modeling Framework for Interpreting Cis-Regulatory Element Function in Deep Sequence Models

**Guilderland Center**

**Guilderland Central High School**  
**Wu, Flora Rain, 17**  
 The Impact of Maternal Risk Factors and Drinking Water Contaminants on Cyanotic Congenital Heart Defects

**Harrison**

**Harrison High School**

**Boquet Couderc, Noelie Roxane, 17**

Determining if Radioprotection Can Be Enhanced Through the Use of *Deinococcus radiodurans* MDP and *Tardigrada* Dsup Protein: Implications for Space Exploration

**Harrison High School**

**Salemo, Emily Ann, 17**

The Effect of  $\alpha$ -Tocopherol on Locomotor Ability of the *Drosophila melanogaster* Mutant for Glutathione S-Transferase Theta 3

**Hewlett**

**George W. Hewlett High School**

**Chen, Darren, 18**

Watching Others, Withholding Self: How Vicarious Embarrassment Relates to Adolescents' Online Self-Presentation and Willingness To Share

**Jericho**

**Jericho Senior High School**

**Adur, Aryana, 17**

Therapeutic Modulation of a Novel Neuroepithelial Circuit by Larazotide Acetate and Neuregulin-1 Restores Epithelial Barrier Integrity in Food Allergy

**Jericho Senior High School**

**Agrawal, Anchita, 17**

Characterizing Convergent Transcriptomic Impacts of Norepinephrine Across Breast Cancer Grades via "Element AVITI-24"

**Jericho Senior High School**

**Balani, Vedant, 17**

Hurricane Forecasting Using Comprehensive Multivariable Machine Learning Modeling With Atmospheric Temperatures, Polar Motion and Sunspot Numbers

**Jericho Senior High School**

**Lee, Franklin, 17**

Dual-Pathway Fusion of EHRs and Knowledge Graphs for Predicting Unseen Drug-Drug Interactions

**Jericho Senior High School**

**Liu, Kevin, 17**

Integrative Structural Modeling and Molecular Dynamics Simulations Reveal Novel Insights Into Autism SORCS3 Missense Mutations

**Jericho Senior High School**

**Qian, Cynthia, 18**

Computational Discovery of Marine Plastic-Degrading Enzymes Enhanced by Deep Eutectic Solvents

**Jericho Senior High School**

**Shah, Ashka, 17**

Selective Dual Inhibition of  $\beta$ -Catenin in Wnt-Driven Cancers via Gid8-Assisted Translocation and a Precision Peptide-Based Gene Therapy

**Jericho Senior High School**

**Yuan, Tommy, 18**

A Genetic Algorithm Approach to Automated Strategy Acquisition in 2048

**Jericho Senior High School**

**Zhao, Justin, 19**

Structural Insights Into the Hybrid Infection Strategy of Bacteriophage Peru-2

Locust Valley	<b>Jericho Senior High School</b> <b>Zhou, Liran, 17</b>	Novel Reconfigurable Straight-Spoke Triwheel Mechanism With Four Bar Linkage for Optimal Stair Climbing
Manhasset	<b>Friends Academy</b> <b>Wang, Julang, 18</b>	Localized Metaresonators for Mid-Wave Infrared Spatial Light Modulators
New Hyde Park	<b>Manhasset High School</b> <b>Keyoung, Lucienne Sophie, 18</b>	Tunable Morphology of Zero-Waste Cellulose Nanofiber Hydrogels via a Novel Gelatin-Mediated Ice Inhibition Mechanism for Sustainable Agriculture and Water Remediation
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	<b>Herricks High School</b> <b>Su, Emma Elise, 17</b>	Developing a Novel Adaptive Tuning Module for Real-Time Frequency Correction in Radiofrequency Coils During Concurrent TMS-fMRI
	<b>Herricks High School</b> <b>Thomas, Abigail, 17</b>	Examining the Pathway of Rab8 Mediated Trafficking of GluA1-AMPARs in Response to In Vitro Chemical LTP Induction in Wildtype and <i>Lrrk2<sup>G2019S</sup></i> Striatal and Cortical Neurons
	<b>Columbia Grammar &amp; Preparatory School</b> <b>Kapadia, Brij, 17</b>	Perceived Negative Energy Density Hawking Radiation Near Black Holes: A Tensorial Derivation
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	<b>Hunter College High School</b> <b>Parikh, Kaya, 17</b>	Ozempic® and Counterfeit Ozempic in Novel Triple-Readout <i>Drosophila</i> Model With Type-2 Diabetes and Obesity
	<b>Hunter College High School</b> <b>Pasari, Siddharth, 17</b>	Development of <i>N</i> -glycan Microarrays as Sensors for Glycan Binders
	<b>Hunter College High School</b> <b>Viderman, Natalie, 17</b>	Hypoxia as a Novel and Non-Invasive Experimental Treatment Model for Congenital Dyserythropoietic Anemia and Rare Erythroid Diseases

**Regis High School**

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**Stuyvesant High School**

**Chen, Hailan, 18**

Class IIa Histone Deacetylase HDAC7 Acts as Master Regulator of STAT3 Inflammatory Pathways and HMGCS1 Cholesterol Synthesis Pathways in Reactive Astrocytes

**Stuyvesant High School**

**Chen, Vincent, 17**

Harnessing Ferroelectric HfO<sub>2</sub>-Modified Carbon Nanotube Membranes for Efficient Hydrogen Atom Generation and Transport Toward Sustainable Ammonia Synthesis

**Stuyvesant High School**

**Jin, Sophia Yinghan, 17**

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**Stuyvesant High School**

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**Trinity School**

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**Ossining**

**Ossining High School**

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Immersive Virtual Reality Paired With a Stress Mindset Intervention Improves Stress Management in Adolescents

**Ossining High School**

**Partridge, Natalie, 18**

Reading Interventions Foster Prosocial Behavior Development in Young Children

**Pelham**

**Pelham Memorial High School**

**Walch, Emily, 18**

Testing a Domain-Specific Impact of English Language Cognitive Test Bias in Spanish Speakers in the United States

**Port Washington**

**Paul D. Schreiber High School**

**Moses, Benjamin Drew, 18**

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**Poughkeepsie**

**Spackenkill High School**

**Hossain, Sayeed, 18**

Probing Quantum Gravity Signatures: Sensitivity Curves for Novel Interferometer Topologies for the QUEST Experiment Using FINESSE

**Roslyn Heights**

**Roslyn High School**

**Chan, Tessla, 18**

Investigating *PELO* as a Novel Synthetic Lethal Target Across Multiple Molecular Subtypes of Gastrointestinal Cancers

**Roslyn High School****Jacobson, Olivia Emma, 18**

Parties in the USA: The Impact of Political Party Affiliation Strength and Party Alignment on Perceptions of Bipartisan Candidates

**Roslyn High School****Jo, Serin, 17**

Design of a Lightweight Algorithm for Robust Mass Spectrometry Peak Detection

**Roslyn High School****Lin, Matthew, 17**

Using Bayesian Optimization To Design Conductive PEO-Based Mixed-Graft Block Copolymers

**Scarsdale****Edgemont High School****Jain, Vasu, 17**

Identification of Chromatin Modification Regulators Implicated in Cancers Through CRISPR Screening

**Edgemont High School****Shah, Ananya, 17**

A Comparison of Precinct and District Voting Data Using Persistent Homology To Identify Gerrymandering in North Carolina

**Scarsdale High School****Xie, Sonja, 17**

Neurite Degeneration Induced by UK-5099 Inhibition of the Mitochondrial Pyruvate Carrier Reveals Metabolic Thresholds for Neuronal Integrity

**Scarsdale High School****Zhang, Shuyue (Linda), 17**

Optimizing Gene Capture: A Direct Cloning Strategy for Large Genomic Fragments

**South Huntington****Saint Anthony's High School****Hoberman, Daniel, 18**

Mapping the Mind: Quantifying the Relationship Between Access to Healthy Foods and Depression in Southeastern Pennsylvania via Measurement Error-Adjusted Poisson Regression Modeling

**Saint Anthony's High School****Hwang, Yena, 18**

Mechanical Activity of Skeletal Muscle Suppresses Lung Cancer Cell Migration Through Myokine-Mediated Pathways

**Syosset****Syosset High School****Liu, Elaine, 17**

The Effects of Apology Strategies on the Spread and Intensity of Cancel Culture Incidents

**Syosset High School****Liu, Grace Chenxin, 17**

Evaluating Gender Differences in the Effects of Ambiguity and Misperception on Entrepreneurship in Three Business Development Stages: A Panel Data Analysis

**Syosset High School****Shah, Nikhil, 18**

Examining the Impact of the Federal Sentencing Guidelines on Racial Disparities in Federal Sentencing

**Tarrytown**

**Hackley School**

**Huang, Sophie Katherine, 17**

Deleting DNA Damage Repair Proteins Exo1, Sgs1, Rad24 and Rad9 Restores Cell Viability in Cdc13-null *Candida glabrata*

**Thornwood**

**Westlake High School**

**Singh, Elizabeth Lilian, 17**

A Novel Epigenetic Pathway to Reversing Pulmonary Arterial Hypertension? Investigating the Regulating Role of UHRF1 in Smooth Muscle Cells

**Yorktown Heights**

**Yorktown High School**

**Desai, Jashvi, 18**

Neuroinflammatory Signatures and Compensatory Prefrontal Mechanisms in Long COVID-19: Insights From 7T MRI and Cognitive Modeling

**Yorktown High School**

**Nair, Siddharth, 17**

Large-Scale Plastic Detection Pipeline via Machine Learning-Augmented Remote Sensing

**Yorktown High School**

**Olson, Willa, 17**

The Effect of Endocrine-Disrupting Chemicals on the Social Behaviors and Testosterone Levels of the North American River Otter (*Lontra canadensis*)

## **NORTH CAROLINA**

**Cary**

**Panther Creek High School**

**Chen, Joshua, 18**

Exploring Nucleolar Protein 4 (NOL4) as a Novel Biomarker in Neuroendocrine Prostate Cancer Using Single-Cell RNA Sequencing

**Durham**

**North Carolina School of Science and Mathematics**

**Fuňák, Filip, 18**

Design, Synthesis and Testing of a Novel 3,5-Dimethoxycinnamic Acid-Based Cathepsin C Inhibitor for the Treatment of Inflammatory Bowel Disease

**North Carolina School of Science and Mathematics**

**Jones, Julianna Anastasia, 17**

Characterization of Flow in Asymmetric Geometries for Valveless Flow Rectification in Insulin Delivery Microfluidic Systems

**North Carolina School of Science and Mathematics**

**Lu, Ella, 17**

Compositional Analysis of Visual Art Structure

**North Carolina School of Science and Mathematics**

**Switzer, Rebekah Rose, 18**

Tannic Acid-Loaded pHEMA-Quaternary Chitosan Hydrogels for Use as Antimicrobial Contact Lenses

**North Carolina School of Science and Mathematics**

**Senzon, Noah Michael, 18**

Evaluating Kudzu (*Pueraria montana*) as a Sustainable Fiber for Thermal Insulation

**Raleigh****William G. Enloe High School****Zhang, Serena Julissa, 18**

Design and In Silico Validation of an Antigen-Conjugated Fc-Fusion Protein for the Treatment of Myasthenia Gravis

**OHIO****Hunting Valley****University School****D'Cruz, Jack, 18**Immunoproteasome Activation Enhances Melanoma Immunogenicity by Increasing HLA and *MAGE-A1* Antigen Presentation**Solon****Solon High School****Kosaraju, Eashan, 17**

A Data-Driven Framework for Quantifying County-Level Structural Disadvantage and Disparities in Premature Mortality

**Solon High School****Song, Frederick, 17**

Trends in the Use of Reirradiation for Second Primary Breast Cancer

**Upper Arlington****Upper Arlington High School****Zhu, Elena Tao, 18**

Intracellular Calcium Oscillation Promotes the Migration and Invasion of Liposarcoma Cells

**OKLAHOMA****Stillwater****Stillwater High School****Kidangathazhe, Alex, 17**

Transforming Natural Phenolics Into Bactericidal Therapeutics Using a Systems-Guided Stress Response Framework

**OREGON****Portland****Jesuit High School****Agarwal, Arjun, 18**Semisimplifications of  $\alpha_p$ -Equivariant  $GL_n$ -Modules**Westview High School****Xie, Henry, 17**

Distilling Empathy From Large Language Models

**PENNSYLVANIA****Hershey****Hershey High School****Dalal, Shaunak, 17**

Time-Series Deep Learning and Conformal Prediction for Improved Sepsis Diagnosis in Primarily Non-ICU Hospitalized Patients

**Philadelphia****Germantown Friends School****Chen-Plotkin, Linus, 18**

Predictability and Statistical Memory in Classical Sonatas and Quartets

**Pittsburgh****North Allegheny Senior High School****Padmanabhan, Sritej Sai, 17**

Linking Goals to Learning: A Novel Goal-Inclusive Kalman Filter Framework Reveals That Goal Uncertainty Attenuates Sensorimotor Adaptation

**North Allegheny Senior High School**

**Zheng, Audrey, 17**

Targeted Isolation of Tumor-Derived Extracellular Vesicles Using a Cocktail of Magnetic Nanospheres for Minimally Invasive Pancreatic Cancer Diagnosis

**State College**

**Delta High School**

**Hill, Connor, 17**

The Complete Set of Noble Polyhedra

## RHODE ISLAND

**Portsmouth**

**Portsmouth Abbey School**

**Jin, Billy, 19**

GradCAM Analysis Reveals Deep Learning Models Misclassify Benign-Appearing Melanomas Based on Possible Architectural Shortcomings Instead of Misdirection Attention

## SOUTH CAROLINA

**Columbia**

**Spring Valley High School**

**Baker, Ella Jennings, 18**

Utilizing the CARRGO Model To Compare the Efficacy of HER2- and EGFR-Targeting CAR-NK Cells on Glioblastoma

**Irmo**

**Dutch Fork High School**

**Taylor, Hunter James, 18**

The Implementation of Ostracods in Aquaculture Greenwater Systems

## TENNESSEE

**Brentwood**

**Brentwood High School**

**Zhang, Claire, 17**

Tardigrades' Cytoplasmic Abundant Heat-Soluble Proteins Serve as Membrane Protectors During Dehydration

**Knoxville**

**Farragut High School**

**Chen, Sophia, 18**

Explainable AI-Guided Virtual Experiments Reveal How DNA Sequence Context Shapes Gene Regulation

**Farragut High School**

**Singh, Ruhaan, 17**

Utilizing a Temporal Sequence Transformer To Effectively Forecast Streamflow Across Diverse Hydroclimatic Regions in the United States

**Memphis**

**White Station High School**

**Yu, Amy, 17**

Exploring the Power-Performance Balance: GPU Frequency Scaling in AI Workloads

**Nashville**

**Hume-Fogg Academic High School**

**Li, Mary Meijia, 17**

Linking Early Life Adversity to Epigenetic Change: A Meta-Analysis of DNA Methylation as a Molecular Memory of Childhood Trauma

**Martin Luther King Jr. Magnet High School**

**Johnson, Addison N., 17**

Octopamine Localization Within the Antennal Sensorimotor System of *Drosophila melanogaster*

**Martin Luther King Jr. Magnet High School**  
**Watson-Brown, Otto, 17**  
 Using Foldit To Design Novel KNa1.2 (Slick) Channel Inhibitors

**University School of Nashville**  
**Zheng, Lin, 18**  
 Sex Differences in GABA-A Receptor Regulation of Dopamine Release in the Nucleus Accumbens and Its Role in Cocaine Use Disorder

## TEXAS

### Austin

**Liberal Arts and Science Academy**  
**Chemudupati, Soumik, 17**  
 Effectiveness of Amygdala Hijack Threat Cues for Interpretable Phishing Email Detection: A Comparison of Machine Learning, Deep Learning and Large Language Models

**Liberal Arts and Science Academy**  
**Liu, Isabel Shuan, 17**  
 A Novel Biomarker-Integrated Machine Learning Model in Chemotherapy-Induced Cardiotoxicity Risk Prediction

**Westwood High School**  
**Akella, Amogh, 17**  
 Diameter Bounds for Friends-and-Strangers Graphs

**Westwood High School**  
**Sthanu, Uma Maya, 17**  
 Glia-Neuron GPCR Signaling as a Therapeutic Route to Axon Regeneration: cAMP-PKA Activation Elevates Excitability and Regrowth in Neurons

### Brownsville

**Veterans Memorial Early College High School**  
**Pineda, Zeviel, 18**  
 Accelerating Whole-Brain Axonal Mapping Through Supervised Machine Learning and Proof of Concept in a Familial Alzheimer's Disease Mouse Model

### Castle Hills

**BASIS San Antonio Shavano Campus**  
**Lucci, Frank, 18**  
 SubArc: An Inexpensive, High-Resolution, Open-Source, Absolute Magnetic Rotary Encoder

### Dallas

**St. Mark's School of Texas**  
**Jin, Everett, 18**  
 Behavioral Characterization of Zebrafish Seizures for Epilepsy Modeling

### Denton

**Texas Academy of Mathematics and Science**  
**Ananthanarayanan, Aniruth, 18**  
 Cutting Too Deep: Tracking a Decade of Benign Lung Resections After the Rise of LDCT Cancer Screening

### Friendswood

**Friendswood High School**  
**Gupta, Shivam, 16**  
 Vision AI: A Novel and Cost-Effective Wearable Assistive System for the Visually Impaired Leveraging AI and Machine Vision

### Granbury

**Granbury High School**  
**Gibson, Shanice Lashay, 18**  
 Design and Validation of a Biomimetic Melanin-Rich Skin Model for Measuring Hydration Retention and Barrier Function Using Low-Cost Sensor Technologies

**Houston**

**Spring Branch Academic Institute**

**Lee, Jaeho, 18**

Affine Group of Integers Modulo  $n$ , Conjugacy Classes and Representations

**Pearland**

**Glenda Dawson High School**

**Liu, Geoffrey, 18**

A Gamified Go/No-Go Paradigm for the Epilepsy Monitoring Unit

**Plano**

**Plano East Senior High School**

**Nagendra, Ananya Gulur, 18**

Utilizing Ants To Mitigate MSW Landfill-Generated Methane Production Through Novel Aerobic Digester System for Anthropogenic Food Waste Decomposition

**Plano Senior High School**

**Bharatia, Dhrroov, 17**

AutoMates: Automating With Self-Learning Intelligent Agents

**Plano West Senior High School**

**Xu, Ryan, 17**

LibAssembler: A Neural Framework for Library-Constrained Reconstruction of 3D Part Assemblies From a Single 2D Image

**San Antonio**

**Keystone School**

**Debnath, Shaumprovo, 18**

From Thought to Speech: Integrating Low-Cost EEGs With AI To Decode Neural Language Signals in Neurologically Intact Non-Verbal Neuromuscular Patients

**Woodlands**

**The Woodlands College Park High School**

**Papar, Rayhan, 18**

Sim-to-Real for Autonomous Tumor Resection via Minimally Invasive Robotics

**The Woodlands College Park High School**

**Shen, Iris, 17**

Assessing Marine Bivalves as Novel Invertebrate Models for Targeting Anti-Apoptotic BCL-2 Family Proteins in Blood Cancer: The In Vivo Effects of Ursolic Acid and Gossypol Acetic Acid on Tumor Cells in *Mercenaria mercenaria*

**UTAH**

**Salt Lake City**

**Rowland Hall**

**Lu, Samuel, 18**

RPE Senescence and Age-Related Macular Degeneration: An Investigation of the Small GTPase ARF6 as a Potential Target for AMD Pathogenesis

**West High School**

**Umamageswaran, Aadhi, 17**

Visualizing Animal Vocalizations for Species Identification

**VERMONT**

**Thetford Center**

**Thetford Academy**

**Renner, Elijah, 17**

Pathformer: Large Language Models for Automated Billing Code Assignment in Multi-Institutional Pathology Reports

**VIRGINIA****Alexandria****Thomas Jefferson High School for Science and Technology****Agarwal, Anusha, 17**

Multigrid-Inspired Neural Operators for Real-Time Brain Biomechanics Prediction With Spectrally-Aware Learning

**Thomas Jefferson High School for Science and Technology****Kukreja, Rushil, 16**

Preparing for the Next Carrington: Spatiotemporal Agent-Based Modeling for Safeguarding Satellite Infrastructure Under Extreme Space Weather Disturbances

**Thomas Jefferson High School for Science and Technology****Levorson, Madeline R., 17**Novel Antimicrobial Treatments Designed With Discovered Lytic Bacteriophages Evaluated Through a Rapid Screening Protocol and an In Vivo *Galleria mellonella* System**Thomas Jefferson High School for Science and Technology****Li, Caroline, 17**

Improving the Detection Sensitivity of Calcium Transients in Densely Labeled Neuronal Tissue Through Pinhole Illumination: A Low-Cost Approach

**Thomas Jefferson High School for Science and Technology****Nandakumar, Nived, 17**

A Closed-Loop Deep Generative Model for the Inverse Design of Radiation-Resistant Polymers

**Thomas Jefferson High School for Science and Technology****Pappula, Medha, 17**

Identifying Underlying Brain Connections in Pediatric ADHD: A Pathway to Early Diagnosis and Reduced Secondary Effects

**Thomas Jefferson High School for Science and Technology****Penumudi, Aashritha, 17**

A Novel Approach to Understanding the Structural Basis of Ribosome Stalling by AMD1 and Cellular Arresting Peptides

**Thomas Jefferson High School for Science and Technology****Zhao, Max, 17**

Improving Time-Series Flood Detection on Remote Sensing Satellite Imagery With Persistent Homology

**Blacksburg****Blacksburg High School****Gitre, Xavier, 18**

Partying Parulidae: Interspecific Social Networks of Parulidae Warblers in Active Migratory Passage

**Chantilly****Chantilly High School****Tummala, Sam, 17**

From Waste to Worth: Transforming Resistant Starches From Waste Rice Into a Single-Use Plastic Alternative and Controlled-Release Organic Fertilizer

**McLean****The Potomac School****Bansal, Avani Tara, 18**

A Novel Pneumatic Silicone Sleeve for Transhumeral Prostheses That Autonomously Regulates and Adjusts to Socket-Limb Pressure To Improve Amputee Comfort

**The Potomac School**

**Majeed-Hall, Aliyah, 18**

TRACE-Stem: A  $^{222}\text{Rn}$ -Calibrated Mechanistic Model of Methane ( $\text{CH}_4$ ) and Carbon Dioxide ( $\text{CO}_2$ ) Transport in Tree Stems

## WASHINGTON

### Bellevue

**Bellevue High School**

**Sengupta, Aditya, 17**

ForeCAT: Advancing Clear Air Turbulence Prediction for Aviation Safety With Atmospheric Physics-Informed Neural Networks and Spatiotemporal Weather Data

**Bellevue High School**

**Zhu, Bryan, 18**

Dimension Reduction for Smooth Convex Optimization via Color Refinement

### Kirkland

**Lake Washington High School**

**Lian, Leo, 18**

Bridging the Justice Gap for Pro Se Civil Rights Plaintiffs: AI-Assisted Complaint Drafting Guided by Analysis of 3,750 Federal Cases

### Puyallup

**Governor John R. Rogers High School**

**Johnson, Tyler Cale, 18**

Shape-Shifting Flight: Exploring the Aerodynamic Performance of a Novel Trailing Edge Variable-Camber Morphing Wing System Implemented in a Flying Wing UAV

### Sammamish

**Eastlake High School**

**Boral, Srishti, 17**

Computational Design of Small-Molecule Activators of the *At/A* Autolysin To Induce Internal Cell Death in Methicillin-Resistant *Staphylococcus aureus*

### Seattle

**The Lakeside School**

**Blocher, Allie, 18**

Clinical Validation of a Novel \$50 Multiple-Pinhole Optometer for Globalizing Vision Testing: Accommodation Bias Drives Dual-Target Innovation

**The Lakeside School**

**Liu, Christina Xinyi, 18**

Applying Explainable AI To Understand How Stellar and Planetary Parameters Impact Exoplanet Habitability

## WEST VIRGINIA

### Morgantown

**Morgantown High School**

**Solanki, Dhruvika M., 17**

Theory-Trained Neural Networks for Robust Arrhythmia Classification

## WISCONSIN

### Brookfield

**Brookfield Central High School**

**Han, Liyang, 18**

A Multimodal AI-Powered Diagnostic and Robot-Assisted Rehabilitation System for Parkinson's Patients

**Milwaukee**

**University School of Milwaukee**

**George, Anand Sebastian, 17**

Prediction of Infection Risk in Multiple Myeloma Patients Treated With Bispecific Antibodies: Neural Network and Ensemble Approaches

**University School of Milwaukee**

**Wang, Angela, 17**

A Novel CNN-Based Approach for Early Alzheimer's Prediction Using Linkage Disequilibrium Matrices From *APOE* Genetic Data

**CHINA**

**Beijing**

**Western Academy of Beijing**

**Zhou, Aiden Ruipeng, 17**

Flow Matching-Based Text-to-Speech for Low-Resource Automatic Speech Recognition Augmentation

**Shanghai**

**Shanghai High School International Division**

**Xie, Arianna Aisi, 17**

Enhancing Base-Editing Efficiency by DNA Gap Induction

Scholars are listed by their age as of the Regeneron STS 2026 Awards Gala in March 2026.

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