



Connecticut Science & Engineering Fair

Quinnipiac University

March 2 - 14, 2026

Special Award Winners

These judging results are unaudited by the fair's Database Committee. The CSEF reserves the right to correct the listings.

All special award winners are required to attend the awards ceremony on Saturday. Be sure to acknowledge by going to the CHECK-IN page.

<https://ctsciencefair.org/finalists-special-awards-check-in>

[SchTown] [School] [Teacher]
[Proj#] [FCat] [Project Title]

Avon Talcott Mountain Science Center Kaitlyn Roberts

5003 P7 Engineering A Durable Algae-Argonite Alkalinity System To Reduce CO2 Driven Ocean Acidification and Enhance Biological Resilience In Coastal Marine Ecosystems

Student(s) Raji Doshi

Grade 7 Town Farmington

Bethel Bethel High School Raymond Turek

6046 PS The Effect of Hydroxyapatite Concentration Within Dentistry Composite Resin on the Wear, Acidic Erosion, and Discoloration on a Synthetic Tooth.

Student(s) Amanda Almeida

Grade 12 Town Bethel

Bethel Bethel High School Ray Turek

6003 PS Fleet for Localized Atmospheric Research and Environmental Surveillance (FLARES): Autonomous drones and machine learning working for a cleaner environment.

Student(s) Toshan Bhattacharya

Grade 11 Town Bethel

Bozrah Fields Memorial School Joshua Fish

1003 LT The Impact of Ice Melting Substances On Unicellular Organisms In Pond Water

Student(s) Analise Williams

Grade 8 Town Bozrah

Ella Sikorski

Grade 8 Town Bozrah

Bridgeport Black Rock School Elizabeth Moran

5528 P8 Solar vs Battery Powered Car Performance

Student(s) Robert Daley

Grade 8 Town Bridgeport

Bridgeport Bridgeport Regional Aquaculture Center Holly Turner

3199 LS Impact of increasing water temperatures on strobilation rates in Aurelia aurita.

Student(s) Calyn Fletcher

Grade 10 Town fairfield

Bridgeport Bridgeport Regional Aquaculture Center Holly Turner

3510 LST How Light Color Influences Agar Production in Gracilalia tikvahiae.

Student(s) Cherelle Ricketts

Grade 10 Town Bridgeport

Joshua Ball

Grade 11 Town Bridgeport

Bridgeport Fairchild Wheeler Biotech Tara Liskov

3515 LST Testing the Efficacy of Non-Toxic Substances on the Destruction of Lanternflies and Egg Masses

Student(s) Maxwell Egbuzie

Grade 12 Town Bridgeport

Sebastian Polanco

Grade 12 Town Bridgeport

Bridgeport Fairchild Wheeler Biotech Marilyn Carolina

3036 LS Budgerigars' Behavioral Responses to Different Genres of Music

Student(s) Carolyn Fox

Grade 12 Town Bridgeport

Bridgeport Fairchild Wheeler Biotech Lucien Bouffard

3109 LS Equine Cooling Patterns: Physiological Modification

Student(s) Carly Grimm

Grade 9 Town Norwalk

Conn. Science & Engineering Fair

Special Award Winners

[SchTown] [School] [Teacher]
[Proj#] [FCat] [Project Title]

Bridgeport Interdistrict Discovery Magnet School Susan Berez

2002 L7 Starch Wars

Student(s) Alicia Palacios

Grade 7 Town Bridgeport

Bridgeport IT & Software Engineering High School Ricki Chiem

6510 PST How Effectively Can AI Classify Waste?

Student(s) Alan Brewster

Grade 10 Town Milford

Mikayla Larbi

Grade 10 Town Bridgeport

Brandon Granados Pastora

Grade 10 Town Bridgeport

Bridgeport John Winthrop School Srilakshmi Kongani

5510 P8 Insulation Investigation

Student(s) Lavinya Baence

Grade 8 Town Bridgeport

Bridgeport Multicultural Magnet School Corina Starn

4006 PT SMART CANE

Student(s) Erick Aquino

Grade 8 Town Bridgeport

Dhavid Caetano

Grade 8 Town Bridgeport

Bridgeport Read School Trisha Bartholomew

5509 P8 How Does Air Flow Around Different Shape of Cars?

Student(s) Aaron Samaroo

Grade 8 Town bridgeport

Bridgeport Warren Harding High School Shelton Neale

3117 LS Plants Grow in Different Soils

Student(s) Joseph Colon-Machado

Grade 11 Town Bridgeport

Cheshire Cheshire High School Julie Barker

6030 PS Towards Faster Materials Simulation: GPU-Optimized Neural Networks for Interatomic Potentials

Student(s) Raine Ma

Grade 11 Town Cheshire

Danbury Saint Joseph School Kathleen Spina

2513 L8 To Drink or Not To Drink: How clean is your water?

Student(s) Christopher Caputo

Grade 8 Town danbury

Danbury St. Gregory the Great School Christine Fahey

2511 L8 Novel & Portable Cards For Detection of Common Food Allergens

Student(s) Rahil Shah

Grade 8 Town Danbury

Danbury Westside Middle School Academy Nancy Barlow

4001 PT What desalinates water the most efficiently; Solar Distillation, Reverse Osmosis, and Boiling

Student(s) Joseph Brocia

Grade 7 Town Danbury, CT

Colin Guidotti

Grade 7 Town Danbury

Brian Saltzman

Grade 7 Town Danbury

Danbury Westside Middle School Academy Nancy Barlow

4009 PT What is the Affect of Wing Design on the Speed a Model Plane Flies?

Student(s) Shihan Lin

Grade 8 Town Danbury

Isabella Amenta

Grade 8 Town Danbury

Ally Kay

Grade 8 Town Danbury

[SchTown] [School] [Teacher]
[Proj#] [FCat] [Project Title]

Danbury Westside Middle School Academy Nancy Barlow

1020 LT How Do Organisms Affect The Rate Off Food Decomposition?

Student(s) **Reina Melendez** **Grade 8** **Town** Danbury
Sophia Cardenas **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Nancy Barlow

4005 PT Can You Detect Muons and Cosmic Rays Using Household Materials? How do Coronal Mass Ejections affect the number of muons and cosmic rays detected?

Student(s) **Sean O'Marra** **Grade 8** **Town** Danbury
Alius Santiago-Stra **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Nancy Barlow

4017 PT The Effect of Phone Case Materials on EMF Radiation from an iPhone Under Various Scenarios.

Student(s) **Gowtham Vallinayagam** **Grade 8** **Town** Danbury
Edward Sola **Grade 8** **Town** Danbury
Rafael Barreto **Grade 8** **Town** Danbury

Danbury Westside Middle School Academy Nancy Barlow

1013 LT How can we use phytoremediation to extract different heavy metals out of soil?

Student(s) **Rhea Yadav** **Grade 8** **Town** Danbury
Aanya Popuri **Grade 8** **Town** Danbury

Darien Darien High School Guy Pratt

3200 LS The effects of psychiatric service dogs on veterans with PTSD and co-occurring mental health disorders: A Meta-Analysis

Student(s) **Anastasia Buchesky** **Grade 12** **Town** Darien

Darien Darien High School David Lewis

6085 PS Functionalizing DNA Nanotechnology: Optimizing the Impact of Buffer Conditions on Chemical Ligation

Student(s) **Claire Chan** **Grade 12** **Town** Darien

Darien Darien High School David Lewis

6091 PS Post-Robbing Behavioral Shifts in Native and Invasive Bees

Student(s) **Stella Nehro** **Grade 12** **Town** Darien

East Lyme East Lyme High School Cecilia Prytko

3182 LS Baby Connect: A haptic solution for deaf parents

Student(s) **Sashrika Das** **Grade 10** **Town** East Lyme

Farmington Farmington High School Alexandra Raymunt

6520 PST Utilizing Banana Peels to Depollute Water

Student(s) **Aniket Menon** **Grade 10** **Town** Unionville
Andrew Nguyen **Grade 10** **Town** Farmington
Daniel Marimekala **Grade 10** **Town** Farmington

Farmington Miss Porter's School Christine Scanlon

3138 LS How Cooking Affects Antioxidant Levels in Cauliflower and Their Role in Cancer Prevention

Student(s) **Olivia Cheon** **Grade 11** **Town** Seoul

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Special Award Winners

[SchTown] [School] [Teacher]
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Glastonbury Glastonbury High School Stephen Falcigno
6079 PS OPTIMIZATION FEASIBILITY ANALYSIS OF COMPLIANT MECHANISM REPLACEMENTS OF HYDRAULICS IN PENDULUM TUNED MASS DAMPERS
Student(s) Diego Aguilar **Grade 12** **Town** South Glastonbury

Glastonbury Glastonbury High School Stephen Falcigno
6035 PS Green Cellulose Extraction From Autumn Leaves For Biodegradable Packaging Films
Student(s) Ioana Popescu **Grade 11** **Town** Glastonbury

Greenwich Brunswick School Dana Montañez
3525 LST Linking Bacterial Contamination in Public Water Sources to Daphnia Behavior and Health
Student(s) Owen Bartoszek **Grade 11** **Town** Greenwich
Aidan Williams **Grade 11** **Town** Greenwich

Greenwich Brunswick School Dana Montanez
3536 LST Biochar as a Bioremediation Method to Control Microplastic Effects on Agricultural Crops
Student(s) Giancarlo Cuesta **Grade 10** **Town** Stamford
Quinn Cunningham **Grade 10** **Town** Greenwich

Greenwich Brunswick School Dana Montanez
3177 LS Preventing Zoonotic Parasitic Growth in Freshwater Aquaculture Using Aerogel Praziquantel Feed Additives
Student(s) Sawyer Sacks **Grade 11** **Town** Greenwich

Greenwich Brunswick School Dana Montanez
6039 PS Comparative Study of Magneto-hydrodynamic Propulsion Designs for Marine Applications
Student(s) Jack Wendell **Grade 11** **Town** Greenwich

Greenwich Central Middle School Andrew Bramante
2503 L8 In situ, Natural Degradation of Cyanotoxins in Water by *L. acidiphilus*, with Concurrent Stimulation of the Aquatic Ecosystem
Student(s) Clarissa Maldonado **Grade 8** **Town** Greenwich

Greenwich Eastern Middle School Andrew Bramante
5515 P8 Computer Simulation for School Traffic Optimization
Student(s) Ivyn Chen **Grade 8** **Town** Greenwich

Greenwich Eastern Middle School Andrew Bramante
5506 P8 OASIS: A Solar-Powered Off-Grid System for Harvesting Water from Subsurface Sand Moisture to Support Desert Vegetation Recovery
Student(s) Jiahao Luo **Grade 8** **Town** Greenwich

Greenwich Greenwich Country Day School Nathan Haag
3099 LS Viability of Freshwater Mussels as a Water-Management Tool in America
Student(s) Cate Auerswald **Grade 12** **Town** Cos Cob

Greenwich Greenwich Country Day School Nathan Haag
6020 PS Effects of different drive-signal strategies on refresh rate and resolution of a Micro controller-driven CRT display.
Student(s) Oliver Davis **Grade 11** **Town** Riverside

Conn. Science & Engineering Fair

Special Award Winners

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Greenwich Greenwich High School Andrew Bramante

3094 LS Determining how prevalence of single nucleotide polymorphisms alters HLA molecule's expression, and dictates Juvenile Idiopathic Arthritis' best treatments in specific populations

Student(s) Tessa Addeo **Grade** 10 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3185 LS Development of a Novel Nanoparticle Drug Delivery System using OLAH Targeting to Deliver Surfactant Protein and Prevent Neonatal Respiratory Distress Syndrome

Student(s) Tyler Malkin **Grade** 10 **Town** Greenwich

Greenwich Greenwich High School Andrew Bramante

3125 LS Creation of PACA nanoparticles with a chitosan bilayer for effective oral delivery of a sildenafil PDE-5

Student(s) Neil Pendkar **Grade** 11 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante

3059 LS Discovery and Validation of Biopolymer Coatings for Nanoparticle-Loaded Silk Fibroin Sutures to Accelerate Tissue Regeneration with a Novel Multimodal Machine Learning Model

Student(s) Raghav Ramji **Grade** 10 **Town** Riverside

Greenwich Greenwich High School Andrew Bramante

6097 PS Process Optimization of Green Chemistry Pathway for Fabric-to-Fabric Recycling of Cotton

Student(s) Marley Wies **Grade** 12 **Town** Old Greenwich

Greenwich Greenwich High School Andrew Bramante

3007 LS Novel On Chip Screening Device for Ovarian Cancer with Algorithm from SVM-RFE on Serum miRNA Relative Expression Orderings

Student(s) Sophie Yu **Grade** 11 **Town** Riverside

Greenwich Sacred Heart Greenwich Joyce Reed

3203 LS Hearing Loss's Correlation to Anxiety

Student(s) Haley Blackwell **Grade** 12 **Town** Rye

Greenwich Sacred Heart Greenwich Mary Musolino

4007 PT Evaluating Biodegradable Plastics Made from Avocados, Bananas, and Mangos

Student(s) Lauren Davidoff **Grade** 8 **Town** Pelham
Grace Nicholas **Grade** 8 **Town** Armonk

Greenwich Sacred Heart Greenwich Mary Musolino

4014 PT Purifying Water using Different Types of Graphene to Adsorb Harmful Pollutants

Student(s) Adriana Hassani-Sadi **Grade** 8 **Town** Old Greenwich
Malaika Bazie **Grade** 8 **Town** White Plains

Greenwich Sacred Heart Greenwich Mary Musolino

4004 PT Evaluating the Effectiveness of Supplementing Simulated Lunar Soil to Promote Crop Growth for Future Lunar Missions

Student(s) Lily Hohensee **Grade** 8 **Town** Stamford
Lily Chase **Grade** 8 **Town** Rye
Paige Yantz **Grade** 8 **Town** Greenwich

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Special Award Winners

[SchTown] [School] [Teacher]
[Proj#] [FCat] [Project Title]

Greenwich Western Middle School Andrew Bramante

5505 P8 Creating a Crab Trap That Uses Computer Vision To Detect and Capture the Invasive European Green Crab

Student(s) Laila McQueen

Grade 8 **Town** Greenwich

Greenwich Western Middle School Andrew Bramante

5526 P8 Comparative analysis of CO2 Reduction by Common Houseplants Using an Arduino-Based Environmental Monitoring System

Student(s) Victoria Shkabarnya

Grade 8 **Town** Greenwich, CT

Hamden Hamden Hall Country Day School Paulomi Aldo

5522 P8 Which shapes are the best for making the most aerodynamic car

Student(s) David Esposito

Grade 8 **Town** North Haven

Hamden Hamden Hall Country Day School Paulomi Aldo

2510 L8 The Effect of Fungi on Plastic Decomposition

Student(s) Emma Gammans

Grade 8 **Town** Woodbridge

Hamden Hamden Hall Country Day School Paulomi Aldo

2505 L8 The Amount of Carbon Dioxide That Nannochloropsis, Chlorella, and Chlamydomonas can Photosynthesize

Student(s) Gabi Pereira

Grade 8 **Town** Hamden

Hamden Hamden Hall Country Day School Daniel Kemp

6517 PST How Does pH Affect the Corrosion Rate of Steel?

Student(s) Yuxiao Yang

Grade 9 **Town** Guilford

Jiale Luo

Grade 9 **Town** Derby

Xinyi Xiao

Grade 9 **Town** Derby

Kent Kent School Michael Green

3058 LS MelodyMemo: A Novel Emotion-Aware Memory-Music Modeling and Recommendation System for Older Adults

Student(s) Newton Niu

Grade 11 **Town** Stamford

Kent Kent School Jesse Klingebiel

6092 PS Modular Development of a Pneumatic Lumbar Exoskeleton for Assisting Stoop Lifting

Student(s) Yu Tung Shan

Grade 10 **Town** Kent

Mansfield Edwin O. Smith High School Cheryl Granger

3528 LST Optimizing Jurkat Cell Cryopreservation Formulation for Safer T-Cell Therapy

Student(s) Alice Han

Grade 11 **Town** Storrs

Bibhuti Marasini

Grade 11 **Town** Storrs

Mansfield Edwin O. Smith High School Cheryl Granger

3211 LS Researching the Effects Of Different Concentrations of Formaldehyde on the Presence of Different Species of Bacteria in Soil

Student(s) Avery Hancock-Braun

Grade 10 **Town** Storrs

Montville Saint Thomas Moore School Yajamana Ramu

3129 LS Towards Climate-Smart Agriculture: Decoding PP2C Gene Functions for Abiotic Stress Resilience in Maize

Student(s) Ami Rastogi

Grade 11 **Town** Monroe Township

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Special Award Winners

[SchTown] [School] [Teacher]
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New Haven Engineering and Science University Magnet Alyssa Anderson
5008 P7 BiteSight: Development of a Mobile Deep Learning Application for Bug Bite Identification
Student(s) Cayden Joseph **Grade** 7 **Town** West Haven

New Haven Engineering and Science University Magnet Alyssa Anderson
4011 PT Which Material Erodes The Most
Student(s) Jacob Werlin **Grade** 7 **Town** New haven
Finnian Dooley **Grade** 7 **Town** New Haven

New Haven Hopkins School Phillip Stewart
6040 PS Arduino-Based Active Stabilization System for Model Rockets Using IMU Feedback and Servo-Driven Fins
Student(s) Aiden Gomez **Grade** 10 **Town** Orange

New Haven Hopkins School Leilei Shinohara
5521 P8 Optical Fire Detection using Computer Vision
Student(s) Maki Lawrence Shinohara **Grade** 8 **Town** New Haven

Norwich Norwich Technical High School Kaitlin McKale
3057 LS Influence of microplastic size and density on the structure of microbial communities: Implications for soil health
Student(s) Nyashia Bostick **Grade** 11 **Town** Willimantic

Plainville Plainville High School Michelle Bellinger
6005 PS Improving Airplane Efficiency and Maximizing a Sustainable Angle of Attack Through Acoustic Streamlining
Student(s) Raman Kasabrukhou **Grade** 10 **Town** Plainville

Pomfret Pomfret School Annie O'Sullivan
6124 PS Leg exoskeletons that can help people with leg disabilities walk
Student(s) Jiazhi Zhao **Grade** 10 **Town** Pomfret

Ridgefield Ridgefield High School Ryan Gleason
3141 LS Prevalence of Pathogens in Asian Longhorn Ticks (Haemaphysalis Longicornis) in Bridgeport Connecticut
Student(s) Sara Hill **Grade** 12 **Town** Ridgefield

Simsbury Westminster School Mike Van Dolah
6513 PST Multi-Function Submersible for Microplastic Collection and Aquatic Environmental Analysis
Student(s) Muqiao Zong **Grade** 10 **Town** Simsbury
Andrew Ma **Grade** 11 **Town** Simsbury

South Windsor South Windsor High School April Davis
6508 PST Green Light AI
Student(s) Devdutt Bhatte **Grade** 10 **Town** South Windsor
Jude Pohl **Grade** 10 **Town** South Windsor
Srivashist Gaddam **Grade** 10 **Town** South Windsor

South Windsor South Windsor High School Danel Eitel
6011 PS From Fumes to Fertilizer: A Dual-Stage Catalytic System Converting Livestock Methane into Carbonate for Sustainable Crop Growth
Student(s) Aniron Pal **Grade** 10 **Town** South Windsor

[SchTown] [School] [Teacher]
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South Windsor South Windsor High School Danel Eitel

3518 LST Cyanopanel

Student(s) Diva Shajith	Grade 10	Town South Windsor
Amariah Ysabelle Luci	Grade 10	Town South Windsor
Sahasra Natti	Grade 10	Town South Windsor

Stamford King School Victoria Schulman

6088 PS Real-Time Instance Segmentation for Curb and Path Detection in Assistive Wearables for Blind and Low-Vision Assistance

Student(s) Olivia Ajayi **Grade** 11 **Town** Stamford

Stamford King School Victoria Schulman

6072 PS Predicting Detectability of Transiting Exoplanets: A Python-based Signal-to-Noise Ratio Model

Student(s) Mia Jakubowsky **Grade** 11 **Town** Rye

Stamford King School Victoria Schulman

6083 PS A Sustainable Treatment For Heavy Metal Pollution: Adsorption and Desorption of Ni(II) Ions In Water Using DNA-Wrapped Carbon Nanotubes

Student(s) Bruno Reinhoefer Ribeiro **Grade** 12 **Town** Riverside

Stamford King School Victoria Schulman

3108 LS Assessing the Effects of Equine Grazing Muzzles on Upper Incisor Length and Dental Qualities in Ponies

Student(s) Marilyn Sommerville **Grade** 11 **Town** South Salem

Stamford Laurel Springs School Vera Ulanovskaya

6096 PS Driven By Demand: A Mixed-Integer Linear Programming Framework to Optimize the Efficiency and Quality of Bus Services in Stamford, CT

Student(s) Victoria Makarov **Grade** 12 **Town** Stamford

Stonington St. Michael School Anna-Helene Grossomanides

5518 P8 Investigating the effect of tire type on robot performance

Student(s) Tyler Baltrukonis **Grade** 8 **Town** Pawcatuck

Stonington St. Michael School Anna-Helene Grossomanides

5016 P7 Potter Hill Problem

Student(s) Vito Gynther **Grade** 7 **Town** Westerly

Stonington St. Michael School Anna-Helene Grossomanides

2507 L8 To Swim or Not To Swim

Student(s) Camille Thomas **Grade** 8 **Town** Gales Ferry

Stratford St. Mark School Andrea Borbor

5512 P8 Crash! Testing Model Cars

Student(s) Stella Jass **Grade** 8 **Town** Trumbull

Trumbull Trumbull Agriscience & Biotechnology Kevin Boken

6056 PS Development of a Multi-Axis Adaptive Inertia Regulation Exoskeleton System: A Counter-Rotational Gyroframe for Stabilization and Energy Efficiency

Student(s) Johnathon Lin **Grade** 10 **Town** Bridgeport

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Special Award Winners

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Wallingford Choate Rosemary Hall Jan Cook

3111 LS Innovative Restoration of Coastal Marine Ecosystems: Phage-Based Disease Control and pH Modulation in Connecticut Waters

Student(s) Taeyoung Kim **Grade** 10 **Town** Seattle

Wallingford Choate Rosemary Hall George Gu

6111 PS NeuroMirror: An Intelligent EEG-Driven Mirror Therapy System Grounded in Hebbian Theory for Post-Stroke Upper-Limb Rehabilitation

Student(s) Sabrina Liu **Grade** 10 **Town** Wallingford

Wallingford Choate Rosemary Hall Talia Dell Angelo

6531 PST Harvesting Water from Air: Optimization of a Novel Solar-Powered Atmospheric Water Generator

Student(s) Hsiao Chian Tseng **Grade** 11 **Town** Bellevue

Hiyab Mebrahtu **Grade** 11 **Town** Haverford

Waterbury ACES Chase Academy Anne Pember

6022 PS Using chitin and chitin-based derivatives to remove and remediate nitrates.

Student(s) Kathryn Thibeault **Grade** 9 **Town** Waterbury

Watertown The Taft School Amanda Benedict

3179 LS Investigating the Neuroprotective and Stress-Modulating Effects of Oxytocin on Human Cells under Cortisol-Induced Stress Conditions

Student(s) Esther Lee **Grade** 10 **Town** Watertown

Watertown The Taft School Amanda Benedict

6070 PS A Novel Equestrian Virtual Reality-Based Coordination Rehabilitation System for Post-Stroke Motor Recovery

Student(s) Mily Xue **Grade** 10 **Town** Watertown

Westport Greens Farms Academy Mathieu Freeman

6109 PS Open Alert: A Novel Alert System For School Safety

Student(s) Benjamin Kiev **Grade** 9 **Town** Westport

Westport Greens Farms Academy Mathieu Freeman

6044 PS Developing a Methodology to Predict Flash Flooding in Southwestern Connecticut Using Historic Flood Events and Weather Data

Student(s) Oliver Rohrbasser **Grade** 12 **Town** Wilton

Westport Greens Farms Academy Julianne Gerdes

3040 LS The Psychology of Yondr Pouches and The Impact on Student Well-being

Student(s) Amalia Slade **Grade** 12 **Town** Westport

Westport Greens Farms Academy Mathieu Freeman

3016 LS A Data-Driven Evaluation of Behavioral and Dermatologic Factors in Adolescent Skincare Practices in the Context of Social Media Exposure

Student(s) Anika Vaidheeswaran **Grade** 11 **Town** Stamford

Westport Staples High School Amy Parent

6025 PS Evaluation the Therapeutic Potential of Curcumin in Improving Motor Neuron Health in Spinal Muscular Atrophy

Student(s) Sofia DiLeo **Grade** 12 **Town** Westport

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Westport Staples High School Amy Parent

3186 LS Comparing deep learning architectures with multispectral imaging for early detection of Black Cutworms on Bush Beans

Student(s) Ezra Schwartz **Grade** 12 **Town** Westport

Wilton Middlebrook School Leah Pariso

4002 PT Dual Axis Automatic Solar Tracker

Student(s) Aarya Patel **Grade** 7 **Town** Wilton

Aaryan Patel **Grade** 7 **Town** Wilton

Wilton Middlebrook School Jessica Garcia

5519 P8 How Microplastics in Water Affects Cymatics

Student(s) Jiya Praveen **Grade** 8 **Town** Wilton

Wilton Middlebrook School Janica Bagosy

5525 P8 Smart Plant Care: Using Automation and AI

Student(s) Pratap Sharma **Grade** 8 **Town** Wilton

Wilton Wilton High School Nomita Ramchandani

6026 PS OleoFoam: A Magnetically Controlled Oleophilic Foam for Targeted Oil Absorption

Student(s) Arav Gupta **Grade** 10 **Town** Wilton

Wilton Wilton High School Matthew Hoyt

6087 PS Improving Space Weather Forecasting Through Multivariate Machine Learning Analysis for SPE (Solar Particle Event) Prediction.

Student(s) Ishanvi Jaiswal **Grade** 11 **Town** Wilton

Windsor Academy of Aerospace & Engineering Joshua Madore

6093 PS Optimizing the Efficiency of Solar Cells using Enhanced Cooling Techniques.

Student(s) Palaniappan Manikandan **Grade** 10 **Town** Ellington

Windsor The Loomis Chaffee School Fahmeed Sheehan

6027 PS Continual Learning with Elastic Weight Consolidation for Human Tree Person Test Frameworks

Student(s) Ria Sunwoo An **Grade** 11 **Town** Windsor

Windsor The Loomis Chaffee School Fahmeed Sheehan

6122 PS LISTEN – A Robotic Leak Identification System using TDNN and Enhanced Acoustic Features for Pipeline Detection

Student(s) Jiaxuan Li **Grade** 11 **Town** Cupertino

Windsor The Loomis Chaffee School Fahmeed Sheehan

3019 LS Can Dead Bacteria Clean Up Our Gardens? Using EPS-Rich Biomass and Biochar to Lower Soil Lead Below 200 ppm

Student(s) Li-An Ye **Grade** 9 **Town** San Jose

Woodbridge Amity Regional High School Sarah Reeves

3198 LS Developing a Predictive App for Water Quality: Modeling E. Coli Quantification Through Spatiotemporal Variables

Student(s) Chloe Chang **Grade** 11 **Town** Orange

Woodbridge Amity Regional High School Sarah Reeves

3180 LS Determining the Accuracy of Biomarker TNF- α in Predicting Ketamine Treatment Outcomes for Veterans with PTSD & MDD

Student(s) Mila Mejnartowicz **Grade** 12 **Town** Woodbridge

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Woodbridge Amity Regional High School Lindsay McCarthy

6012	PS	Developing a Bio-Hybrid Luminescent Solar Concentrator Using Carbon Quantum Dots, Natural Fluorophores, and Kaolin Powder for Enhanced Solar Energy Harvesting
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Student(s) Aryan Shrivastav

Grade 11 **Town** Orange
