



Conn. Science & Engineering Fair

Quinnipiac University

March 2 - 14, 2026

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

Regular Fair Awards - Finalists

Sorted by:
 - School Town
 - School
 - Last Name

[SchTown]	[School]	[Teacher]	[Proj#]	[Project Title]	Student(s)	Grade	Town
Avon	Avon High School	John Salerni	3119	Hyper-Activated Interferon Pathways in Asthmatic B Cells Contribute to Exaggerated Immune Response	Aarika Bhave	11	Avon
* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion							
Avon	Avon High School	John Salerni	3085	Automated Detection of Pulmonary Nodules in Computed Tomography Scans Using Deep Learning to Reduce Radiologist Workload	Nathaniel Lee	11	Avon
* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion							
Avon	Avon High School	John Salerni	3172	Integrating Copy Number Alterations and Transcriptomics with Machine Learning Improves Survival Prediction in HPV-negative Head and Neck Cancer	Vishnu Mukku	11	Avon
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion							
Avon	Avon High School	John Salerni	3076	Static and Dynamic Functional Connectivity Within and Cross Reading and Default Mode Networks in Children Varying in Family Risk for Dyslexia and Reading	Mridhulaa Rajagopal	12	Avon
* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion							
Avon	Avon High School	John Salerni	6103	Adaptive Machine Learning-Driven Waste Management System	Karthikeyen Suresh Nagan	10	Avon
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion							
Avon	Talcott Mountain Science Center	Kaitlyn Roberts	5003	Engineering A Durable Algae-Argonite Alkalinity System To Reduce CO2 Driven Ocean Acidification and Enhance Biological Resilience In Coastal Marine Ecosystems	Raji Doshi	7	Farmington
<ul style="list-style-type: none"> * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences 7th Grade Ind. - \$200 & trophy & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 3rd Place MS- \$100, Trophy * Alexion Biotechnology Awards --- 1st Place Biotechnology 7th grade - \$200, trophy & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge * Society of Women Engineers - Hartford Section --- Scientific Calculator * Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Junior * Freeman Family Excellence in Chemistry Awards --- \$100 For Excellence in Chemistry or Chemical Engineering - Middle School * Susan and Stanley Lessoff Memorial --- Susan and Stanley Lessoff Memorial Award - \$250 Cash MS 							

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

Avon Talcott Mountain Science Center Brigette Zacharczenko

2005 Sensory Triggers of Defensive Behavior in Manduca seat

Student(s) Sheldon Hsiao **Grade 7** **Town** Farmington

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences 7th grade- \$150 & trophy
- * Alexion Biotechnology Awards --- 5th Place Biotechnology 7th grade - trophy

Avon Talcott Mountain Science Center Brigette Zacharczenko

2001 Operation Brine Shrimp: Optimizing Life Conditions

Student(s) Nikhil Krishnamurthy **Grade 7** **Town** Avon

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences 7th grade- \$100 & trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

Avon Talcott Mountain Science Center Kenneth Wright

2504 A Cognitive Analysis of Social Media Engagement and Multitasking Behaviors in Adult Attention and Focus Endurance

Student(s) Dean Raptis **Grade 8** **Town** West Hartford

- * Infosys Foundation Computer Science Awards --- Middle School Finalist - Medallion

Bethel Bethel High School Raymond Turek

6046 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

- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - \$100 Cash

Bethel Bethel High School Ray Turek

6003 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

- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * University of New Haven Scholarship Awards --- \$120,000, 4 year scholarship (\$30,000 per year) to University of New Haven for exemplary 11th grade project
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related

Bethel Bethel High School Ray Turek

6029 A Multiscale Evolutionary Simulation and Machine Learning Framework to Predict Immunotherapy Failure from Tumor-Immune Interaction Dynamics

Student(s) Srirama Desiraju **Grade 12** **Town** Bethel

- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

Bethel Bethel High School Ray Turek

3534 Wavelet-Based Multiscale Anisotropy-Aware Cell-Cell Communication Inference and Niche Segmentation

Student(s) Shravya Mankala **Grade 11** **Town** Bethel

Scarlett Chen **Grade 11** **Town** Scarsdale

Jiayu Su **Grade 10** **Town** Ridgefield

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place - Life Sciences Senior High Team - Plaque
- * Pfizer Computational Biology and Bioinformatics Awards --- 1st Place High School - \$300, Plaque

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

Bozrah Fields Memorial School Joshua Fish

1003 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

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences Middle School Team - CSF Medallion
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF
- * Alumni Botany Awards --- Alumni Middle School Botany Award- \$100 Cash

Bridgeport Black Rock School Elizabeth Moran

5010 Bridge Weight Bearing Capacity

Student(s) **Aiden Cote** **Grade 7** **Town** Bridgeport

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences 7th Grade - CSF Medallion
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion

Bridgeport Black Rock School Elizabeth Moran

5528 Solar vs Battery Powered Car Performance

Student(s) **Robert Daley** **Grade 8** **Town** Bridgeport

- * Stanley Black & Decker Applied Technology Awards --- 2nd Place Middle School - \$150 and Plaque, Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- 2nd Place Middle School - \$150 Cash and Trophy
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * The Bob Erickson Memorial Innovation Awards --- \$200 Cash Award- Clear Execution of Research- 8th Grade

Bridgeport Bridgeport Regional Aquaculture Center Kirk Shadle

6075 Solid-State Synthesis Using Metal Supported Biochar to Minimize Polycyclic Aromatic Hydrocarbon Impurities

Student(s) **Austin Bell** **Grade 12** **Town** Bridgeport

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion

Bridgeport Bridgeport Regional Aquaculture Center Holly Turner

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

Student(s) **Calyn Fletcher** **Grade 10** **Town** fairfield

- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 1st Place HS- \$300, Plaque and \$1250 Stipend to Compete at GENIUS Olympiad
- * Aquarion Water Company --- 1st, \$300.00 Cash - Grade 9-12 For Excellence in Water Quality or Environmental Management

Bridgeport Fairchild Wheeler Biotech Tara Liskov

3515 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

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High Team - CSF Medallion
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
- * Banning Family Life Science Award --- For excellence in invasive species research, \$100 cash

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

Bridgeport Fairchild Wheeler Biotech Marilyn Carolina

3036 Budgerigars' Behavioral Responses to Different Genres of Music

Student(s) **Carolyn Fox** **Grade 12** **Town** Bridgeport

- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion
- * Institute of Food Technologists, Nutmeg Section --- \$75 award + invitation to Awards Night Dinner with guest

Bridgeport Fairchild Wheeler Biotech Lucien Bouffard

3109 Equine Cooling Patterns: Physiological Modification

Student(s) **Carly Grimm** **Grade 9** **Town** Norwalk

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * NYUC Pony Club Equine or Animal Science Awards --- \$100 Cash Award or excellence in equine studies

Bridgeport Interdistrict Discovery Magnet School Susan Berez

2002 Starch Wars

Student(s) **Alicia Palacios** **Grade 7** **Town** Bridgeport

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences 7th grade- \$200, trophy & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- * Talcott Mountain Science Center & Academy --- TMSC Founder's Award - Middle School Life Science - Scholarship to one Summer or Saturday Program at TMSC - Value \$650
- * J.A. Augustine and H. Glista Awards --- \$100 for excellence in Life Sciences

Bridgeport IT & Software Engineering High School Ricki Chiem

6510 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

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences Senior High Team- \$200 (split) & Plaques
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 4th Place High School - Plaque, Medallion
- * The Community Foundation for Greater New Haven Ecology, Environmental, and Alternative Energy Research Prize --- Award for top environmental protection project from an urban public school (\$455)

Bridgeport IT & Software Engineering High School Ricki Chiem

6094 Designing Metalloid bags to help reduce static buildup in powders

Student(s) **Ayden Gamble** **Grade 11** **Town** Bridgeport

- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 5th Place High School - Plaque, Medallion
- * University of Hartford Scholarships --- University of Hartford 4 Year Scholarship for Excellence in Engineering or Technology, Grade 11 only - \$120,000 (\$30,000/year)

Bridgeport John Winthrop School Srilakshmi Kongani

5510 Insulation Investigation

Student(s) **Lavinia Baence** **Grade 8** **Town** Bridgeport

- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by ONR
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Anonymous Friends of the Fair Family Awards --- 3rd place - \$100 - For Excellence in Engineering Middle School

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Bridgeport John Winthrop School Srilakshmi Kongani

5520 The War of Energy Efficiency

Student(s) **Anthony Gomes** **Grade 8** **Town** Bridgeport

- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- 3rd Place Middle School - \$100 Cash and Trophy

Bridgeport John Winthrop School Erin Snow

5012 Catalase's pH sweet spot

Student(s) **Jacob Lin** **Grade 7** **Town** Bridgeport

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 4th Place- Physical Sciences 7th Grade Ind. - trophy

Bridgeport Multicultural Magnet School Corina Starn

4006 SMART CANE

Student(s) **Erick Aquino** **Grade 8** **Town** Bridgeport
Dhavid Caetano **Grade 8** **Town** Bridgeport

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences MS Team- \$200 (split), trophies & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion
- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project
- * Wisner Chairman's Award --- \$500 cash & plaque
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2026 Invention Convention Summer Finals, August 22

Bridgeport Warren Harding High School Shelton Neale

3117 Plants Grow in Different Soils

Student(s) **Joseph Colon-Machado** **Grade 11** **Town** Bridgeport

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF
- * Earth Forward Group, LLC --- 1st Prize for Sustainable, Agriculture and Food Systems \$250 cash
- * Susan and Stanley Lessoff Memorial --- Susan and Stanley Lessoff Memorial Award - \$250 Cash HS

Cheshire Cheshire High School Julie Barker

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

Student(s) **Raine Ma** **Grade 11** **Town** Cheshire

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences Senior High Individual - \$100 & Plaque
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- 3rd Place- Engineering Senior High- \$100 & plaque
- * Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac Univ - HS Student in Computing
- * Anonymous Friends of the Fair Family Awards --- 1st place - \$250 - For Excellence in Engineering High School

Danbury Saint Joseph School Kathleen Spina

2004 Does your choice of footwear have a significant impact on your jumping ability?

Student(s) **Emily Bauco** **Grade 7** **Town** Danbury

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 5rd Place- Life Sciences 7th grade- trophy

[SchTown] [School] [Teacher]
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Danbury Saint Joseph School Kathleen Spina

2506 Homemade Water Filtration

Student(s) **Ryder Maravilla** **Grade 8** **Town** Danbury

* EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion

Danbury Saint Joseph School Kathleen Spina

2009 Does Chocolate Improve Memory?

Student(s) **John Zilliox** **Grade 7** **Town** Danbury

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 4th Place- Life Sciences 7th grade- trophy

Danbury St. Gregory the Great School Christine Fahey

5011 The Hot-Weather Whiff Effect

Student(s) **Slok Mishra** **Grade 7** **Town** Danbury

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 5th Place- Physical Sciences 7th Grade Individual - trophy

Danbury St. Gregory the Great School Christine Fahey

1005 The effect of location on water quality of the Upper Saugatuck River Watershed using macroinvertebrate metrics.

Student(s) **Gemma Molisani** **Grade 8** **Town** Redding

Lucia Molisani **Grade 8** **Town** Redding

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences MS Team- trophy

* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 1st Place MS - \$200, Trophy

Danbury St. Gregory the Great School Christine Fahey

2511 Novel & Portable Cards For Detection of Common Food Allergens

Student(s) **Rahil Shah** **Grade 8** **Town** Danbury

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 4th Place- Life Sciences 8th grade- trophy

* Alexion Biotechnology Awards --- 3rd Place Biotechnology 8th grade - \$100 & trophy

* Institute of Food Technologists, Nutmeg Section --- \$150 award + invitation to Awards Night Dinner with guest

* National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100

Danbury Westside Middle School Academy Nancy Barlow

4001 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

* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion

* EnergizeCT Future Sustainability Awards --- 3rd Place Middle School - \$100 Cash and Trophy

* IEEE, Connecticut Section --- \$250 Honors Award -Junior

Danbury Westside Middle School Academy Nancy Barlow

1006 The Effect of Acid Rain on Plants Around the World

Student(s) **Brooke Cyphers** **Grade 7** **Town** Danbury

Margo Anderson **Grade 7** **Town** Danbury

* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion

* EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion

* Alexion Biotechnology Awards --- 4th Place Biotechnology 7th grade - trophy

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

Danbury Westside Middle School Academy Nancy Barlow

1001 The Effect of Different Music Genres on Time it Takes Ants to Travel

Student(s)	Zahir Guaman	Grade 8	Town Danbury
	Jhon Ramirez	Grade 8	Town Danbury
	Frandell Olea	Grade 8	Town Danbury

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences Middle School Team - CSF Medallion
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 4th Place Middle School - Trophy, Medallion
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion

Danbury Westside Middle School Academy Nancy Barlow

4009 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

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences MS Team- trophies
- * Connecticut Science Fair Association Mathematics Awards --- Middle School Finalist - Medallion
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 3rd Place Middle School - \$100 and Trophy, Medallion
- * Pepsico Engineering Awards --- 1st Place- Engineering Middle School- \$200, trophy & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- * Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100

Danbury Westside Middle School Academy Nancy Barlow

1020 How Do Organisms Affect The Rate Off Food Decomposition?

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

- * EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion
- * Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF
- * Earth Forward Group, LLC --- 3rd Prize for Sustainable, Agriculture and Food Systems \$100 cash

Danbury Westside Middle School Academy Nancy Barlow

4005 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

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Jr Team - CSF Medallions
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 5th Place Middle School - Trophy, Medallion
- * Astronomical Society of Greater Hartford - The Charles Hammond for Excellence in Astronomy Award --- Junior Top Project-\$500, subscription to Sky and Telescope, ASGH membership and meeting invitation

Danbury Westside Middle School Academy Nancy Barlow

1027 Keeping It Cool & Damp

Student(s)	Madison Rowe	Grade 7	Town Danbury
	Sophia Fernandes	Grade 7	Town Danbury
	Makayla Roxo	Grade 7	Town Danbury

- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

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

Danbury Westside Middle School Academy Nancy Barlow

4013 The Effect of Electrolyte Concentration on the Voltage Produced by a Baghdad Battery

Student(s) **Logan Schneider** **Grade 8** **Town** Danbury
Daniel Sposato **Grade 8** **Town** Danbury

* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion

Danbury Westside Middle School Academy Nancy Barlow

4017 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

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences MS Team- \$100 (split) & trophies
* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 2nd Place Middle School - \$150, Trophy, Medallion & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
* American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project
* The Community Foundation for Greater Hew Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash

Danbury Westside Middle School Academy Nancy Barlow

1013 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

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences Middle School Team - CSF Medallion
* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- Middle Schools- \$100 / trophy
* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF

Darien Darien High School David Lewis

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

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

* Pepsico Engineering Awards --- 2nd Place- Engineering Senior High- \$200 & plaque
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR

Darien Darien High School Ayman Reffai

3169 Explanatory machine learning modeling of a seven-molecular marker panel for immune checkpoint inhibition response per RECIST v1.1 in metastatic urothelial carcinoma

Student(s) **Matthew Li** **Grade 12** **Town** Darien

* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

East Lyme East Lyme High School Jian Li

3006 Multimodal Deep Learning for BI-RADS Classification Prediction Using Breast Ultrasound and Patient Clinical Data

Student(s) **Danlu Li** **Grade 10** **Town** East Lyme

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

East Lyme East Lyme Middle School Jung Hyun Kim

2516 Predicting Erosive Potential: Comparing Acid Type and Titratable Acidity in Common Beverages

Student(s) **Ayden Kim** **Grade 8** **Town** East Lyme

* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

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

Farmington Farmington High School Alexandra Raymunt

6535 Quantifying Caffeine Content in Commercially Labeled Caffeinated versus Decaffeinated Products

Student(s) **Pranit Bagchi** **Grade** 11 **Town** Farmington
Liora Dorsett **Grade** 11 **Town** Farmington

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion

Farmington Farmington High School Alexandra Raymunt

3069 Optimizing Bromelain and Papain Protease Formulations to Preserve Catalytic Activity Under Simulated Human Gastrointestinal Stress

Student(s) **Rajanya Bishi** **Grade** 10 **Town** Farmington

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Farmington Farmington High School Alexandra Raymunt

6520 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

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place - Physical Sciences Senior High Team - Plaque

* IEEE, Connecticut Section --- \$250 Honors Award -Senior

Farmington Farmington High School Alexandra Raymunt

3188 Characterizing Direct and Immune-Mediated Anti-Neoplastic Effects of Acute Exercise-Conditioned Serum on High-Grade Serous Carcinoma

Student(s) **Nithin Solomon** **Grade** 12 **Town** Unionville

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Glastonbury Glastonbury High School Stephen Falcigno

6079 OPTIMIZATION FEASIBILITY ANALYSIS OF COMPLIANT MECHANISM REPLACEMENTS OF HYDRAULICS IN PENDULUM TUNED MASS DAMPERS

Student(s) **Diego Aguilar** **Grade** 12 **Town** South Glastonbury

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 4th Place- Physical Sciences Senior High Individual - Plaque

* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

* U.S. Metric Association --- Certificate & \$25 gift card given by CSEF

* Anonymous Friends of the Fair Family Awards --- 3rd place - \$100 - For Excellence in Engineering High School

Glastonbury Glastonbury High School Stephen Falcigno

6035 Green Cellulose Extraction From Autumn Leaves For Biodegradable Packaging Films

Student(s) **Ioana Popescu** **Grade** 11 **Town** Glastonbury

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion

* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related

Glastonbury Glastonbury High School Stephen Falcigno

3161 Experimental Validation of Computational Tools for Nanobody Affinity Maturation

Student(s) **Anya Srivastava** **Grade** 11 **Town** Glastonbury

* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[Project Title]	Student(s)	Grade	Town	
Greenwich	Brunswick School	Dana Montanez	3536	Biochar as a Bioremediation Method to Control Microplastic Effects on Agricultural Crops	Giancarlo Cuesta Quinn Cunningham	10 10	Stamford Greenwich	
<ul style="list-style-type: none"> * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion * Earth Forward Group, LLC --- 2nd Prize for Sustainable, Agriculture and Food Systems \$150 cash 								
Greenwich	Brunswick School	Dana Montanez	6504	Teaching Artificial Intelligence to Detect Focal Seizures Accurately Using a Camera System.	Jude Evans Collin McCreath	10 10	Greenwich Ryebrook	
<ul style="list-style-type: none"> * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences Senior High Team- \$300 (split) & Plaques * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion 								
Greenwich	Brunswick School	Dana Montanez	6047	Applying Causal Inference Methodologies to a Large-scale Publicly Available Dataset to Assess Causality Between Nutrient Deficiencies and ADHD Diagnoses	Sohan Javeri	10	Greenwich	
<ul style="list-style-type: none"> * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion 								
Greenwich	Brunswick School	Dana Montanez	3530	An investigation of Methylene Blue's Neuroprotective ability to Inhibit Excess Glutamate in aquatic Invertebrates.	Jayden Montanez Callum Holl	11 11	Greenwich Old Greenwich	
<ul style="list-style-type: none"> * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High Team - CSF Medallion 								
Greenwich	Brunswick School	Dana Montanez	3507	Antioxidant Delivery using Food Grade Nanoclay as a strategy to emulsify lipids and potentially reduce LDL oxidation.	Nathaniel O'Connor Tyrus Ostrowski	11 11	Chappaqua Port Chester	
<ul style="list-style-type: none"> * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High Team - CSF Medallion 								
Greenwich	Brunswick School	Dana Montanez	3519	Comparative Analysis of Biopolymer Hydrogels: an Investigation of Degradability, Nitrogen Leaching, and Plant Growth.	Chris Pedlow Gabriel Levy	11 11	Cos Cob Greenwich	
<ul style="list-style-type: none"> * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences Senior High Team- \$300 (split) & Plaque * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion 								
Greenwich	Brunswick School	Dana Montanez	3177	Preventing Zoonotic Parasitic Growth in Freshwater Aquaculture Using Aerogel Praziquantel Feed Additives	Sawyer Sacks	11	Greenwich	
<ul style="list-style-type: none"> * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 4th Place- Life Sciences Senior High- Plaque * Aquarion Water Company --- 3rd \$200.00 Cash - Grade 9-12 For Excellence in Water Quality or Environment Management 								

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

Greenwich Brunswick School Dana Montanez

6039 Comparative Study of Magneto hydrodynamic Propulsion Designs for Marine Applications

Student(s) Jack Wendell **Grade** 11 **Town** Greenwich

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
- * NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF
- * University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Physical Sciences - \$100 Cash

Greenwich Central Middle School Andrew Bramante

2503 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

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences 8th grade- \$200, trophy & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Life Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * Alexion Biotechnology Awards --- 1st Place Biotechnology 8th grade - \$200, trophy & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF

Greenwich Central Middle School Andrew Bramante

2508 Investigating the Inclusion of Hair Extracted Keratin Nanostructures for Increased Strength and Flexibility for the Construction of an Artificial Anterior Cruciate Ligament

Student(s) Juliette Prezioso **Grade** 8 **Town** Greenwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences 8th grade- \$100 & trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place- Middle School- \$150 / trophy
- * Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place Middle School - \$150, Trophy
- * Pepsico Engineering Awards --- 2nd Place- Engineering MS- \$150, trophy & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- * Alexion Biotechnology Awards --- 4th Place Biotechnology 8th grade- trophy

Greenwich Central Middle School Andrew Bramante

5502 Repurposing Carbon Combustion Residuals from a Landfill Waste to a Beneficial Soil Additive

Student(s) Morgan Schwartzstein **Grade** 8 **Town** Greenwich

- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- 5th Place Biotechnology 8th grade- trophy

Greenwich Eastern Middle School Andrew Bramante

2517 A Web-Based Detection Tool for Medical Conditions Effecting the Eye: Integrating Multiple Trained CNNs for Accessible Smartphone Screening

Student(s) Ares Bandebo-Cambra **Grade** 8 **Town** Old Greenwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Infosys Foundation Computer Science Awards --- 1st Place Middle School - \$200, Trophy
- * Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac Univ - MS Student in Computing
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

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

Greenwich Eastern Middle School Andrew Bramante

5515 Computer Simulation for School Traffic Optimization

Student(s) Ivyn Chen **Grade 8** **Town** Greenwich

- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Infosys Foundation Computer Science Awards --- Middle School Finalist - Medallion
- * Anonymous Friends of the Fair Family Awards --- 2nd place - \$150 - For Excellence in Engineering Middle School

Greenwich Eastern Middle School Andrew Bramante

5501 Fabrication of a UV-A versus UV-B Dual-Wavelength, Wearable Patch

Student(s) Julia Gitelman **Grade 8** **Town** Old Greenwich

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 5th Place- Physical Sciences 8th Grade Ind. - trophy

Greenwich Eastern Middle School Andrew Bramante

5506 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

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 4th Place- Physical Sciences 8th Grade Ind. - trophy
- * EnergizeCT Future Sustainability Awards --- Middle School Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Alexion Biotechnology Awards --- 2nd Place Biotechnology 8th grade - \$150 & trophy
- * Lemelson Early Inventor Award --- Certificate & \$100 cash award from Lemelson Foundation
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2026 Invention Convention Summer Finals, August 22

Greenwich Eastern Middle School Andrew Bramante

2502 Can Dietary Anti-oxidant Pre-treatment Control the Hyperphosphorylation of Tau Protein,

Student(s) Neil Mikkilineni **Grade 8** **Town** Greenwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 5th Place- Life Sciences 8th grade- trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

Greenwich Eastern Middle School Andrew Bramante

2509 Machine Learning-Based Analysis of Smartphone Behavioral Data for Detection of Depression in High School and College Students

Student(s) Srihari Mysore **Grade 8** **Town** Cos Cob

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
- * Infosys Foundation Computer Science Awards --- Middle School Finalist - Medallion

Greenwich Greenwich Country Day School Nathan Haag

3121 Engineering a Thermostable Enzyme for the Degradation of PET Through Manipulation of Disulfide Bonds

Student(s) Jackson Lieberman **Grade 11** **Town** Greenwich

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

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

Greenwich Greenwich High School Andrew Bramante
3094 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

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place High School - \$100, Plaque
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75 gift card given by ONR
- * Otero Family Award --- The Otero Family Award; \$250 cash

Greenwich Greenwich High School Andrew Bramante
3014 CD44-Targeted Nanoparticle Co-Delivery of Simvastatin and Colchicine for Localized Treatment of Atherosclerotic Plaque Inflammation in Cardiovascular Disease

Student(s) Arnab Bhatia **Grade** 11 **Town** Old Greenwich

- * Stanley Black & Decker Applied Technology Awards --- 3rd Place High School - \$ 100 and Plaque, Medallion
- * Alexion Biotechnology Awards --- 4th Place Biotechnology Senior High - plaque

Greenwich Greenwich High School Andrew Bramante
3101 Design of a Fluorescence-Based, Point-of-Care Diagnostic for Chronic Kidney Disease via Smartphone Detection of Salivary Creatinine-Porphyrin Conjugation

Student(s) Rajsi Choudhary **Grade** 9 **Town** Riverside

- * Alexion Biotechnology Awards --- 2nd Place Biotechnology Senior High - \$200 & plaque

Greenwich Greenwich High School Andrew Bramante
3104 Colorimetric Sensory Detection of High Levels of Uric Acid and Endothelin-1 for Early Pulmonary Hypertension

Student(s) Amelia Foell **Grade** 11 **Town** Greenwich

- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

Greenwich Greenwich High School Andrew Bramante
3028 A Novel Dual-Targeting Therapeutic Patch for Non-Addictive, Non-Opioid Pain Suppression via Selective Transient Receptor Potential (TRP) Modulation

Student(s) Nishant Jain **Grade** 11 **Town** Riverside

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Greenwich Greenwich High School Andrew Bramante
6060 Bridging the Sim-to-Real Gap in Autonomous Drone Control via Curriculum-Scheduled Domain Randomization

Student(s) Henry Jin **Grade** 12 **Town** Greenwich

- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

Greenwich Greenwich High School Andrew Bramante
3020 Exploration of Neuroprotective potential of Moringa oleifera against Alzheimer's Disease and Drosophila Alzheimer's model validation

Student(s) Raymond Li **Grade** 11 **Town** riverside

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Greenwich Greenwich High School Andrew Bramante
6019 Harvesting Energy using Rain: Self-Healing Triboelectric Nanogenerators using CNT Composite Paper to Produce Meaningful Energy Production

Student(s) Richard Lu **Grade** 9 **Town** Greenwich

- * EnergizeCT Future Sustainability Awards --- 1st Place High School - \$300, Plaque & \$1250 Stipend to Compete at GENIUS Olympiad
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

[SchTown]	[School]	[Teacher]	[Proj#]	[Project Title]	Student(s)	Grade	Town
Greenwich	Greenwich High School	Andrew Bramante	3185	Development of a Novel Nanoparticle Drug Delivery System using OLAH Targeting to Deliver Surfactant Protein and Prevent Neonatal Respiratory Distress Syndrome	Tyler Malkin	10	Greenwich
<ul style="list-style-type: none"> * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion * Regeneron Biomedical Science Award --- Certificate & \$375.00 cash 							
Greenwich	Greenwich High School	Andrew Bramante	3125	Creation of PACA nanoparticles with a chitosan bilayer for effective oral delivery of a sildenafil PDE-5	Neil Pendkar	11	Old Greenwich
<ul style="list-style-type: none"> * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75 gift card given by ONR 							
Greenwich	Greenwich High School	Andrew Bramante	3059	Discovery and Validation of Biopolymer Coatings for Nanoparticle-Loaded Silk Fibroin Sutures to Accelerate Tissue Regeneration with a Novel Multimodal Machine Learning Model	Raghav Ramji	10	Riverside
<ul style="list-style-type: none"> * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion * Connecticut Science Supervisors Association --- \$225 for a high school project 							
Greenwich	Greenwich High School	Andrew Bramante	3133	Design of a Novel, Dual-Functioning, T-Cell-Engaging and Cytarabine-Based Nanotherapeutic for Acute Myeloid Leukemia Treatment	Lula Wang	11	Old Greenwich
<ul style="list-style-type: none"> * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences Senior High- \$200 & Plaque * Alexion Biotechnology Awards --- 3rd Place Biotechnology Senior High - \$100 & plaque 							
Greenwich	Greenwich High School	Andrew Bramante	6097	Process Optimization of Green Chemistry Pathway for Fabric-to-Fabric Recycling of Cotton	Marley Wies	12	Old Greenwich
<ul style="list-style-type: none"> * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place - Physical Sciences Senior High Individual - \$300 & Plaque * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- Physical Sciences 1st HS \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg * Freeman Family Excellence in Chemistry Awards --- \$200 For Excellence in Chemistry or Chemical Engineering - High School 							
Greenwich	Greenwich High School	Andrew Bramante	3007	Novel On Chip Screening Device for Ovarian Cancer with Algorithm from SVM-RFE on Serum miRNA Relative Expression Orderings	Sophie Yu	11	Riverside
<ul style="list-style-type: none"> * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion * Alexion Biotechnology Awards --- 5th Place Biotechnology Senior High - plaque * Lunch with a Patent Attorney --- Lunch with a Patent Attorney 							

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

Greenwich Sacred Heart Greenwich Joyce Reed

3203 Hearing Loss's Correlation to Anxiety

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

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * The Community Foundation for Greater New Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a High School student, \$100 cash
- * Connecticut Academy of Audiology Awards --- \$200 Award HS- For Excellence in Audiology and Acoustics, oport. to shadow an audiologist

Greenwich Sacred Heart Greenwich Mary Musolino

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

Student(s) **Lauren Davidoff** **Grade 8** **Town** Pelham

Grace Nicholas **Grade 8** **Town** Armonk

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Jr Team - CSF Medallions
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2026 Invention Convention Summer Finals, August 22

Greenwich Sacred Heart Greenwich Mary Musolino

4014 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

- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Aquarion Water Company --- 2nd. \$150.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management

Greenwich Sacred Heart Greenwich Joyce Reed

3015 Understanding The Effects of Music Usage On Caregivers of Alzheimer's Patients

Student(s) **Grace Mucciaa** **Grade 12** **Town** Rye

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Greenwich Sacred Heart Greenwich Mary Musolino

4018 Bio Fuel from Bamboo: Comparing the Yield of Ethanol Produced from Fermentation to the Bio Oil Produced from Solvent Extraction

Student(s) **Riley Williams** **Grade 8** **Town** Harrison

Paula Tonkovich **Grade 8** **Town** New Canaan

- * EnergizeCT Alternative & Renewable Energy Awards --- Middle School Finalist - Medallion

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

Greenwich Western Middle School Andrew Bramante

5505 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

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 1st Place- Physical Sciences 8th Grade Ind. - \$200, trophy & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge
- * Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$200 / trophy
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 2nd Place MS- \$150, Trophy
- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac Univ - MS Student in Engineering
- * Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * National Center for Inquiry Learning --- Daniel & Maggie Award for Imagination - MS \$100
- * Jon Stone Memorial Awards --- Jon Stone Award for Innovative Engineering- \$100

Greenwich Western Middle School Andrew Bramante

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

Student(s) Victoria Shkabarnya **Grade 8** **Town** Greenwich, CT

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences 8th Grade Ind. - \$150 & trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- * Pepsico Engineering Awards --- 3rd Place- Engineering MS \$100 & trophy
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - \$100
- * Zepke Awards --- \$120 - For the Best Use of Electronic Circuitry- Middle School

Hamden Hamden Hall Country Day School Paulomi Aldo

5014 What is the Lowest Ratio of Earth to Mars Soil in which Plants can be Grown?

Student(s) George Hirsch **Grade 7** **Town** North Haven

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences 7th Grade Ind. - \$100 & trophy
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

Hamden Hamden Hall Country Day School Alice Loth

6095 Innovated Emergency Vital Sign Detector

Student(s) Rhea Hu **Grade 10** **Town** North Haven

- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion

Hamden Hamden Hall Country Day School Jacob Marchesi

6522 Active Noise Cancellation Efficiencies of an Adaptive ANC System Using Destructive Interference to Reduce Harmful Low-frequency Urban Noise.

Student(s) Frida Ramirez Moreno **Grade 11** **Town** Meriden
Barbara Ramirez Moreno **Grade 12** **Town** Meriden

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion
- * University of New Haven Scholarship Awards --- \$120,000, 4 year scholarship (\$30,000 per year) to University of New Haven for exemplary 11th grade project

[SchTown] [School] [Teacher]
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Hamden Sacred Heart Academy Elizabeth Christophy

6502 Comparing α -Pinene Emissions from Local Wood's Smoke Through Polarimetric Data

Student(s) **Persephone Delaney Delaney** **Grade** 10 **Town** Wallingford
Cathleen Coughlin **Grade** 10 **Town** North haven

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion

Kent Kent School Jesse Klingebiel

3088 Ginger-Derived Exosomes Inhibit Microbial Contamination in Aqueous Environment

Student(s) **Leni Fan** **Grade** 10 **Town** Lexington

- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
- * EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion

Kent Kent School Michael Green

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

Student(s) **Newton Niu** **Grade** 11 **Town** Stamford

- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Bushnell Center for Performing Arts --- Pair of Tickets to & Juliet for top project that is behavioral or social sciences related

Kent Kent School Jesse Klingebiel

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

Student(s) **Yu Tung Shan** **Grade** 10 **Town** Kent

- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Wisner Chairman's Award --- \$500 cash & plaque

Kent Kent School Jesse Klingebiel

6098 Assessment of Walking Ability in Parkinson's Patients Using Three-Dimensional Plantar Pressure Sensors

Student(s) **Tianrui Zhang** **Grade** 11 **Town** Kent

- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac Univ - HS Student in Engineering

Manchester Manchester High School Stefanie Sebastiao-Kirby

3159 The Impact of Presentation Styles on Engagement in High School Math Classes

Student(s) **Shaelan Gara Grady** **Grade** 12 **Town** Manchester

- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 3rd Place High School - \$ 100 and Plaque, Medallion

Manchester Manchester High School Wendy Turek

3524 Investigating Genetic Correlations Between Down Syndrome and Congenital Heart Defects Through Biostatistical Analysis to Develop a Predictive Model

Student(s) **Grace Golas** **Grade** 12 **Town** Manchester
Aine Corbett-Cousins **Grade** 12 **Town** Manchester

- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion

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[Proj#] [Project Title]

Manchester Manchester High School Stefaine Sebastiao-kirby

3112 Investigation of Reptile UV bulb on vitamin D2 synthesis in pulverized oyster mushrooms : An analysis over 0, 1, 2, and 3 hour durations using Thin Layer Chromatography (TLC).

Student(s) **Warda Iqbal** **Grade** 12 **Town** Manchester

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Mansfield Edwin O. Smith High School Cheryl Granger

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

Student(s) **Alice Han** **Grade** 11 **Town** Storrs

Bibhuti Marasini **Grade** 11 **Town** Storrs

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High Team - CSF Medallion

* Marty Putnam Foundation Awards --- Top Project in Cell or Gene Therapy or Immunology, 1st Place \$300

Mansfield Edwin O. Smith High School Cheryl Granger

3211 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

* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion

* NASA EARTH System Science Award --- Certificate and \$25 gift card given by CSEF

Meriden H. C. Wilcox Technical High School Jeffrey Daddona

6518 Using storm water run off to generate clean energy and water.

Student(s) **Chase Andrews** **Grade** 11 **Town** wallingford

Riley Keyes **Grade** 11 **Town** wallingford

Kyle Miranda **Grade** 11 **Town** Meriden

* EnergizeCT Technical High School Science & Technology Awards --- 3rd Place- Technical High School , \$100, Plaque

* EnergizeCT Alternative & Renewable Energy Awards --- 3rd Place High School - \$100 Cash and Plaque

* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion

Montville Saint Thomas Moore School Yajamana Ramu

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

Student(s) **Ami Rastogi** **Grade** 11 **Town** Monroe Township

* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion

* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

* Marty Putnam Foundation Awards --- Top Project in Cell or Gene Therapy or Immunology, 2nd Place \$200

New Haven Engineering and Science University Magnet Alyssa Anderson

3038 Implementation and Validation of a Novel Machine-Learning Framework for Classifying Fossil Invertebrates Using Quantitative Morphological Trait Matrices

Student(s) **Sahithi Aliminate** **Grade** 11 **Town** Milford

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

* University of Hartford Scholarships --- University of Hartford 4 Year Scholarship for Excellence in Science or Math, Grade 11 only - \$120,000 (\$30,000/year)

[SchTown]	[School]	[Teacher]	[Proj#]	[Project Title]	Student(s)	Grade	Town
New Haven	Engineering and Science University Magnet	Alyssa Anderson	5008	BiteSight: Development of a Mobile Deep Learning Application for Bug Bite Identification	Cayden Joseph	Grade 7	West Haven
<ul style="list-style-type: none"> * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences 7th Grade Ind. - \$150 & trophy * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 1st Place Middle School - \$200, Trophy, Medallion, invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge & Scholarship to Project Oceanology's Ocean Camp (\$955) * Infosys Foundation Computer Science Awards --- 2nd Place Middle School - \$150, Trophy * Connecticut Academy of Science and Engineering Middle School Urban School Challenge Award --- Urban School Challenge 1st MS- \$250 Cash Award, Invite to attend CASE's Annual Meeting * Alexion Biotechnology Awards --- 2nd Place Biotechnology 7th grade - \$150 & trophy * Talcott Mountain Science Center & Academy --- TMSC Founder's Award - Middle School Physical Science - Scholarship to one Summer or Saturday Program at TMSC - Value \$650 * The Bob Erickson Memorial Innovation Awards --- \$150 Cash Award-- Clear Execution of Research- 7th Grade 							
New Haven	Engineering and Science University Magnet	Paula Matei-Grysiak	6007	Real-Time Adaptive Support for Dementia: An Integrated Multimodal Device for Spatial and Auditory Guidance	Ethan Joseph	Grade 11	West Haven
<ul style="list-style-type: none"> * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 1st Place High School - \$300 and Plaque, Medallion * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- \$500 to 1st HS Urban School Challenge Science Department for Equipment/Supplies 							
New Haven	Engineering and Science University Magnet	Alyssa Anderson	6530	Gpu price to performance per game.	Maceo Regan antonio roblero	Grade 9 Grade 9	Milford fair haven
<ul style="list-style-type: none"> * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion 							
New Haven	Engineering and Science University Magnet	Alyssa Anderson	3156	Capturing Carbon Dioxide with Chemical Solutions of Varying Alkalinity	Anabelle Silverman	Grade 9	New Haven
<ul style="list-style-type: none"> * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion 							
New Haven	Hopkins School	Viktoriia Kolesnyk	3097	Understanding Uterus Wound Healing and Tissue Remodeling: The Role of Fibroblast Growth Factor 2	Derin Bahtiyar	Grade 11	New Haven
<ul style="list-style-type: none"> * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion 							
New Haven	Hopkins School	Phillip Stewart	6040	Arduino-Based Active Stabilization System for Model Rockets Using IMU Feedback and Servo-Driven Fins	Aiden Gomez	Grade 10	Orange
<ul style="list-style-type: none"> * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion * U.S. Air Force --- Certificate & USAF Merchandise Package 							
New Haven	Hopkins School	Z Ping Lin	3078	Investigating the Role of Rad52 Inhibition in HR Repair in Ovarian Cancer	Riya Rao	Grade 12	Woodbridge
<ul style="list-style-type: none"> * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion 							

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

New Haven Hopkins School Leilei Shinohara

5521 Optical Fire Detection using Computer Vision

Student(s) **Maki Lawrence Shinohara** **Grade 8** **Town** New Haven

- * Infosys Foundation Computer Science Awards --- Middle School Finalist - Medallion
- * American Society of Safety Professionals, CT Valley Chapter --- \$150 grade 7-8 project
- * Jon Stone Memorial Awards --- Jon Stone Award for Innovative Engineering- \$100

New Haven Hopkins School Yi Wang

3025 Nano-Enabled Defense: Using Sulfur Nanoparticles to Limit Cadmium in Soybeans

Student(s) **Luannie Wang** **Grade 10** **Town** Guilford

- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 2nd Place HS- \$200, Plaque

New Haven Wilbur Cross High School John Lazzari

3140 Studying Compositionality in Multitasking Artificial Neural Networks for Motor Control

Student(s) **Julian Theodore** **Grade 12** **Town** New Haven

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 2nd Place High School - \$200 and Plaque, Medallion, and \$1250 stipend to compete at GENIUS Olympiad

New Haven Worthington Hooker School Douglas Jones

1030 Natural Cleaners vs Chemical Cleaners

Student(s) **Paulina Borowski** **Grade 8** **Town** New Haven
Camila Guerrero Diaz **Grade 8** **Town** New Haven

- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Middle School Finalist - Medallion

New Milford Canterbury School Woo Rin Lee

3061 Eco-Friendly Floating Bio-Island for Simultaneous Removal of Heavy Metals from Polluted Water Using Aquatic Macrophytes

Student(s) **Minhyo Tae** **Grade 11** **Town** Seoul, South Korea

- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion

North Haven Slate School Jennifer Staple-Clark

2514 A Microbiology Study of Ancient and Modern Flours: Comparing Microbial and Chemical Changes in Leavening Systems

Student(s) **Pierson Clark** **Grade 8** **Town** North Haven

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences 8th grade- \$150 & trophy
- * Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place Middle School - \$100, Trophy

Norwich Norwich Technical High School Kaitlin McKale

3526 Using Loop-Mediated Isothermal Amplification (LAMP) for Hydrilla Verticillata Identification in New England Waters

Student(s) **Jarelis Acevedo** **Grade 12** **Town** Norwich
Addison Hackett **Grade 12** **Town** Willimantic

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High Team - CSF Medallion
- * EnergizeCT Technical High School Science & Technology Awards --- 1st Place- Technical High School, \$300, Plaque & \$1250 Stipend to Compete at GENIUS Olympiad
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- 3rd Place HS- \$100, Plaque

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

Norwich Norwich Technical High School Kaitlin McKale

3010 Blue Oyster Cult(ure): Using Pleurotus for Mycoremediation of Water Contaminants

Student(s) **Debbie Calixto Mota** **Grade 11** **Town** Willimantic

- * EnergizeCT Technical High School Science & Technology Awards --- 2nd Place- Technical High School , \$200, Plaque
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion
- * University of New Haven Scholarship Awards --- \$120,000, 4 year scholarship (\$30,000 per year) to University of New Haven for exemplary 11th grade project

Norwich Norwich Technical High School Kaitlyn McKale

3098 what plants bees prefer to pollinate with

Student(s) **Elijah Jackman** **Grade 11** **Town** voluntown

- * EnergizeCT Technical High School Science & Technology Awards --- Technical High School Finalist - medallion

Norwich Norwich Technical High School Kaitlin Mckale

3196 The Effects of Skin Care Products on the Face Microbiome

Student(s) **Emma Stimson** **Grade 11** **Town** Moosup

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Plainville Plainville High School Michelle Bellinger

6005 Improving Airplane Efficiency and Maximizing a Sustainable Angle of Attack Through Acoustic Streamlining

Student(s) **Raman Kasabrukhu** **Grade 10** **Town** Plainville

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
- * U.S. Air Force --- Certificate & USAF Merchandise Package

Ridgefield Ridgefield High School Patrick Hughes

6523 A Nuclear Magnetic Resonance Spectroscopy Study of Five Di-imine Molecules

Student(s) **Eva Figlar** **Grade 12** **Town** Ridgefield

Anahit Abernethy **Grade 11** **Town** Ridgefield

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion

Ridgefield Ridgefield High School Ryan Gleason

3141 Prevalence of Pathogens in Asian Longhorn Ticks (Haemaphysalis Longicornis) in Bridgeport Connecticut

Student(s) **Sara Hill** **Grade 12** **Town** Ridgefield

- * Petit Family Foundation Women in Science & Engineering Awards --- 2nd Place High School \$200 / plaque
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
- * American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project

Rocky Hill Rocky Hill High School Brian Graca

6090 Evaluating Post-Pandemic Recoveries in Standardized Test Scores across Connecticut School Districts and their Explanatory Factors

Student(s) **Akaansha Ganisshan** **Grade 11** **Town** Rocky Hill

- * Connecticut Science Fair Association Mathematics Awards --- High School Finalist - Medallion

[SchTown] [School] [Teacher]
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Rocky Hill Rocky Hill High School Sharon Parker

3053 The correlation of gut microbes with depression in patients with multiple sclerosis

Student(s) **Tanisha Sahu** **Grade 11** **Town** Rocky Hill

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * University of Hartford Scholarships --- University of Hartford 4 Year Scholarship for Excellence in Science or Math, Grade 11 only - \$120,000 (\$30,000/year)

Salisbury Indian Mountain School Marissa Teator

1014 The Dividing Line of Language: A Computational Model and Cross-Cultural Analysis of How Linguistic Labels Reshape "Chaotic" Perception

Student(s) **Kelly Chen** **Grade 7** **Town** Lakeville

Xinyue Zhang **Grade 7** **Town** Lakeville

- * Pfizer Computational Biology and Bioinformatics Awards --- Middle School Finalist - Medallion

Salisbury The Hotchkiss School Jennifer Rinehart

3183 Disrupting the Inflammatory–Fibrotic Circuit: Evaluating Galectin-3 Inhibition as a Novel Non-Hormonal Therapy for Adenomyosis

Student(s) **Yunting Jin** **Grade 10** **Town** Lakeville

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Salisbury The Hotchkiss School Jennifer Rinehart

3162 Iron Biofortification in Portulaca oleracea: A Comparative Analysis of Iron Accumulation and Bioavailability in Root, Stem, and Leaf Under Soil and Hydroponic Conditions.

Student(s) **Chuyao (Yaoyao) Yuan** **Grade 11** **Town** Lakeville

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion

Shelton Shelton Intermediate School Rebecca Manzer

1002 Impact of Varying Wavelengths of Light and Controlled Environmental Conditions on the Degredation of Vitamin C Potency in Fruits

Student(s) **Aria O'Connor** **Grade 8** **Town** Shelton

Anna Campbell **Grade 8** **Town** Shelton

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences MS Team- \$150 split & trophy
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion

Simsbury Westminster School Mike Van Dolah

6513 Multi-Function Submersible for Microplastic Collection and Aquatic Environmental Analysis

Student(s) **Muqiao Zong** **Grade 10** **Town** Simsbury

Andrew Ma **Grade 11** **Town** Simsbury

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior Team - CSF Medallion
- * Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, waste recycling related
- * Electric Boat Management Association Science and Engineering Research Awards --- Top Prize in Nautical Research - \$100 Cash for top project that has innovative nautical applications

South Windsor South Windsor High School Danel Eitel

3095 A Quantitative Evaluation of Microplastic Degradation Using Enzyme Kinetics and Binding Energy

Student(s) **Rachel Mathew** **Grade 10** **Town** South Windsor

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

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

South Windsor South Windsor High School Danel Eitel

3193 Salt-Eating BioTiles: A Sustainable Solution to Combat Soil Salinity Using Halobacterium

Student(s) **Prasheeta Mohanty** **Grade** 10 **Town** South Windsor

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

South Windsor South Windsor High School Danel Eitel

3518 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

* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
* CT Architecture Foundation - The William M. Mack, AIA Awards --- \$250 Amazon Gift Ccard from the Connecticut Architecture Foundation, William M. Mack, AIA Award for Innovation in Building Sustainability.
* Air and Waste Management Association, Connecticut Chapter --- \$100 Senior, Environmental Research, air pollution related

Stamford King School Victoria Schulman

6088 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

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
* American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project

Stamford King School Victoria Schulman

6014 A Voice-Controlled Robotic Arm for Assisting Complex Surgical Tasks

Student(s) **Dillon Maltese** **Grade** 12 **Town** Greenwich

* Stanley Black & Decker Applied Technology Awards --- 1st Place High School - \$300 and Plaque, Medallion

Stamford King School Victoria Schulman

3146 Effects of Dietary Sugars on Bone Mass and Mechanical Strength

Student(s) **Max Marti** **Grade** 11 **Town** New Canaan

* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

Stamford King School Victoria Schulman

3197 CX3CR1+ Cell Type-Specific ERK Hyperactivation Promotes Inflammatory Remodeling

Student(s) **Lilah Mehta** **Grade** 11 **Town** New Canaan

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Stamford Laurel Springs School Vera Ulanovskaya

6096 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

* Connecticut Science Fair Association Mathematics Awards --- 1st Place High School- \$300 and Plaque
* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, , gift packs, & T-shirt - For Excellence in Mathematics

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

Stonington St. Michael School Anna Grossomanides

2007 Sweet Science: How Sugars Fuel Yeast Vs. Humans

Student(s) **Audrina Chapman Roberts** **Grade 7** **Town** westerly

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences 7th grade - CSF Medallion
- * Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion

Stratford St. Mark School Patrick Fallon

2008 The Rust Race

Student(s) **Arianna Chuco** **Grade 7** **Town** stratford

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences 7th grade - CSF Medallion

Trumbull Trumbull Agriscience & Biotechnology Kevin Boken

6056 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

- * EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * U.S. Metric Association --- Certificate & \$25 gift card given by CSEF
- * Electric Boat Management Association Science and Engineering Research Awards --- Top Prize in Nuclear Energy - \$100 Cash for top project that has innovative nuclear applications

Trumbull Trumbull Agriscience & Biotechnology Kevin Boken

3120 Optimizing the Mechanical Strength of Mycelium-Based Composites (MBCs) Through Substrate Manipulation

Student(s) **Madeline Totten** **Grade 11** **Town** Trumbull

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * University of Hartford Scholarships --- University of Hartford 4 Year Scholarship for Excellence in Engineering or Technology, Grade 11 only - \$120,000 (\$30,000/year)

Wallingford Choate Rosemary Hall Talia Dell Angelo

6009 Conics Determined By Triangle Centers In Ceva-Six Configurations

Student(s) **Benjamin Cha** **Grade 11** **Town** Tenafly

- * Connecticut Science Fair Association Mathematics Awards --- 2nd Place High School- \$200 and Plaque

Wallingford Choate Rosemary Hall Jan Cook

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

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

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
- * National Oceanic and Atmospheric Administration --- Certificate and \$25 gift card given by CSEF

Wallingford Choate Rosemary Hall George Gu

6111 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

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 5th Place- Physical Sciences Senior High Individual - Plaque
- * Stanley Black & Decker Applied Technology Awards --- 2nd Place High School - \$200 and Plaque Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2026 Invention Convention Summer Finals, August 22

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

Wallingford Choate Rosemary Hall Talia Dell Angelo

6531 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

* EnergizeCT Future Sustainability Awards --- 2nd Place High School - \$200 Cash and Plaque

* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2026 Invention Convention Summer Finals, August 22

Washington The Frederick Gunn School Morgen Fisher

3123 Identify NK Cell Global Changes during Breast Cancer Development via Analyzing Single-cell Transcriptomes in Human Breast

Student(s) Xuena Zhang **Grade** 11 **Town** Lexington

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Waterbury ACES Chase Academy Anne Pember

5013 Exploring Scent Movement and Diffusion

Student(s) Ayanna Aybar **Grade** 7 **Town** Waterbury

* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion

Waterbury ACES Chase Academy Anne pember

3184 Dominant salt marsh species, *Spartina alterniflora* and *Geukensia demissa*, being used to measure the health of a marsh.

Student(s) Nina Garcia **Grade** 10 **Town** Waterbury

* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion

Waterbury ACES Chase Academy Anne Pember

1024 From Food Waste to Water Bottles: Testing Avocado (*Persea Americana*) Skins as a Sustainable Material

Student(s) Emalyn Lemos **Grade** 7 **Town** Oakville

Camila Ruiz-Ribeiro **Grade** 7 **Town** Waterbury

* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

Waterbury ACES Chase Academy Anne Pember

1017 *Galleria Melonella* Larvae as Plastic Eaters: Myth or Fact?

Student(s) Mason Mercado **Grade** 7 **Town** Waterbury

Jason Deo **Grade** 7 **Town** Waterbury

* Alexion Biotechnology Awards --- Finalist - Biotechnology 7h grade - CSF Medallion

Waterbury ACES Chase Academy Anne Pember

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

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

* Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- Senior High Finalist - Medallion

* Arthur & Ruth Mensing Award --- Mensing Award Excellence in the High School Physical Sciences - \$500

Watertown The Taft School Amanda Benedict

3179 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

* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR

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[Proj#] [Project Title]

Watertown The Taft School Amanda Benedict

3521 Finding a New Class of Inhibitors for IL-1 β (interleukin-1 beta) Towards the Cure of Age Related Macular Degeneration

Student(s) **Jonathan So** **Grade** 11 **Town** Watertown

Jamie Ho **Grade** 11 **Town** Lawrence Township

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 2nd Place- Life Sciences Senior High Team- \$200 (split) & Plaque
- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

Watertown The Taft School Anton Antonov

6099 Neural A*: Learning-Guided, Bounded-Optimal Path Planning for Cluttered Maps

Student(s) **Andreas Tsang** **Grade** 10 **Town** Watertown

- * Connecticut Science Fair Association Mathematics Awards --- High School Finalist - Medallion

Watertown The Taft School Amanda Benedict

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

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

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * Anonymous Friends of the Fair Family Awards --- 2nd place - \$150 - For Excellence in Engineering High School

West Hartford Kingswood Oxford Ashkan Novin

3178 A Multi-Modal AI/ML Platform for Neurodegenerative Risk Prediction: Integrating Epigenetic Signatures through cfDNA Methylation and Functional Mobility Data

Student(s) **Rhea Doshi** **Grade** 10 **Town** Farmington

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences Senior High- \$300 & Plaque
- * Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place High School - \$200, Plaque
- * H. Joseph Gerber Award of Excellence presented by the Connecticut Academy of Science and Engineering --- Life Sciences Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, Invite to CASE Annual Mtg
- * Alexion Biotechnology Awards --- 1st Place Biotechnology Senior High - \$300 & plaque

West Haven Notre Dame High School Omar Espinosa

3107 Decoding Adhesion Proteins: Computational Insights for Smarter Brain-on-a-Chip Interfaces

Student(s) **Siddarth Kothandam** **Grade** 11 **Town** Hamden

- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

Weston Weston High School Stacey Greenberg

6507 Prometheus: Discovering Novel Quantum Critical Phenomena in Disordered Systems Using Unsupervised Deep Learning

Student(s) **Brandon Yee** **Grade** 12 **Town** Weston

Maximilian Rutkowski **Grade** 12 **Town** Weston

Wilson Collins **Grade** 12 **Town** Weston

- * Infosys Foundation Computer Science Awards --- 3rd Place High School- \$100, Plaque

Westport Greens Farms Academy Mathieu Freeman

6062 A Novel Proposal for the Implementation of Microreactors & Conveyor Systems into the Transportation Phase of Mining to Eliminate Rock Truck CO₂ Emissions

Student(s) **Cannon Anderson** **Grade** 12 **Town** weston

- * EnergizeCT Alternative & Renewable Energy Awards --- High School Finalist - Medallion

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Westport Greens Farms Academy Mathieu Freeman

3080 Comparative Efficacy of Intravenous vs. Intraosseous Tranexamic Acid in Simulated Hemorrhage and Warfarin-Altered Clotting

Student(s) Dylan Karpf **Grade** 9 **Town** Westport

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Westport Greens Farms Academy Mathieu Freeman

6109 Open Alert: A Novel Alert System For School Safety

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

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
* Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2026 Invention Convention Summer Finals, August 22

Westport Greens Farms Academy Juli Gerdes

3192 How Climate Change's Alteration to the Protein Composition in Aedes aegypti Food Source Impacts Their Life History Traits

Student(s) Lolade Oshin **Grade** 12 **Town** West Haven

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Westport Greens Farms Academy Mathieu Freeman

6044 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

* Connecticut Science Fair Association Mathematics Awards --- High School Finalist - Medallion
* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, gift packs, & T-shirt - For Excellence in Mathematics
* Geology/Historic Project of Merit Award --- \$100 - Earth Science - Field work with Geologic or historic value

Westport Staples High School Amy Parent

6023 Optimizing Fin Design for a Mars-Launched Rocket Using Open-Source Simulation

Student(s) Anit Arvind **Grade** 11 **Town** Westport

* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

Westport Staples High School Amy Parent

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

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

* Petit Family Foundation Women in Science & Engineering Awards --- 3rd Place- High School- \$100 / plaque
* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Life Sciences - \$100 Cash

Westport Staples High School Amy Parent

3039 Effect of Coenzyme Q10 and Epigallocatechin Gallate on Alpha-Synuclein Aggregation in Caenorhabditis elegans to Treat Parkinson's Disease

Student(s) Leah Dombrow **Grade** 11 **Town** Westport

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion

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[Proj#] [Project Title]

Westport Staples High School Amy Parent

3013 The Mechanisms Underlying the Mitigating Effects of Vitamin D Supplementation on Duchenne Muscular Dystrophy in *C. elegans*

Student(s) Nolan Francis **Grade** 12 **Town** Westport

* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

Westport Staples High School Amy Parent

3139 Discovering Novel Targets for the FMN Riboswitch to Test the Utility of Computational RNA-folding Methods to Address Multidrug Antibiotic Resistance

Student(s) Jay Hari **Grade** 12 **Town** Westport

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Westport Staples High School Amy Parent

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

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

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

* J.A. Augustine and H. Glista Awards --- \$100 H. Glista Award for Life Sciences

Westport Staples High School Amy Parent

3063 Can Your Diet Protect Against Microplastics? Discovering the Impact of Probiotic *E. coli* Strains on Microplastic-Induced Toxicity in *C. elegans*

Student(s) Sienna Schwartz **Grade** 11 **Town** Westport

* Petit Family Foundation Women in Science & Engineering Awards --- High School Finalist - Medallion

Wilton Middlebrook School Nancy Wakeham

4012 Green Walls: The Power of Plant-Based Materials for Home Cooling

Student(s) Wesley Marley **Grade** 7 **Town** Wilton

Arrin Suri **Grade** 7 **Town** Wilton

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Jr Team - CSF Medallions

* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion

* Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion

* Alexion Biotechnology Awards --- 3rd Place Biotechnology 7th grade - \$100 & trophy

Wilton Middlebrook School Jessica Garcia

5514 Treat Them Proteins! Using Technology to Help Damaged Enzymes

Student(s) Tanush Nareddy **Grade** 8 **Town** Wilton

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences 8th Grade - CSF Medallion

* Pfizer Computational Biology and Bioinformatics Awards --- 1st Place Middle School - \$200, Trophy

* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

Wilton Middlebrook School Janica Bagosy

2519 Smart Bandages for Dogs,

Student(s) Owen O'Dea **Grade** 8 **Town** Wilton

* Stanley Black & Decker Applied Technology Awards --- 1st Place Middle School - \$200 and Plaque, Medallion

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Wilton Middlebrook School Leah Pariso

4002 Dual Axis Automatic Solar Tracker

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

- * EnergizeCT Alternative & Renewable Energy Awards --- 1st Place Middle School - \$200 Cash and Trophy
- * EnergizeCT Future Sustainability Awards --- 2nd Place Middle School - \$150 Cash and Trophy
- * Pepsico Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- * Society of Women Engineers - Hartford Section --- Scientific Calculator
- * MIT Club of Hartford K-12 Initiative --- For excellence in science & technology of energy related research, middle school, \$100 cash award
- * Jon Chapitis Memorial Award --- Jon Chapitis Spirit of Innovation Award - MS \$100
- * Dreams Unlimited Award --- \$150 cash award and certificate

Wilton Middlebrook School Jessica Garcia

5519 How Microplastics in Water Affects Cymatics

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

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences 8th Grade - CSF Medallion
- * Ricoh Americas Corporation --- Certificate, \$25 gift card given by CSEF
- * Connecticut Science Supervisors Association --- \$175 for a middle school project
- * Aquarion Water Company --- 1st. \$200.00 Cash - Grade 7-8 For Excellence in Water Quality or Environmental Management

Wilton Middlebrook School Allison Norful

1031 Human Versus Machine: Can Two Kids and a Quantum Computer Beat a "Magic: The Gathering" Professional?

Student(s) **Avery Schay** **Grade 7** **Town** Wilton
Jack Richardson **Grade 7** **Town** Wilton

- * Connecticut Science Fair Association Mathematics Awards --- 1st Place Middle School- \$200 and Plaque

Wilton Middlebrook School Janica Bagosy

5525 Smart Plant Care: Using Automation and AI

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

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences 8th Grade Ind, - \$100 & trophy
- * Stanley Black & Decker Applied Technology Awards --- 3rd Place Middle School - \$100 and Plaque, Medallion
- * Infosys Foundation Computer Science Awards --- 3rd Place Middle School- \$100, Trophy
- * Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion
- * Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, \$25 gift card given by ONR

Wilton Wilton High School Nomita Ramchandani

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

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

- * Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- * J.A. Augustine and H. Glista Awards --- \$100 for excellence in Physical Sciences

Wilton Wilton High School Matthew Hoyt

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

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

- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Astronomical Society of Greater Hartford - The Charles Hammond for Excellence in Astronomy Award --- Senior Honorable Mention Project-\$500, subscription to Sky and Telescope, ASGH membership and meeting invitation

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

Windsor Academy of Aerospace & Engineering Konda Chevva

6101 FAB-HEX : Fractal Shaped Additive and Bio-inspired Heat Exchanger

Student(s) **Aarav Chevva** **Grade 10** **Town** Ellington

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences Senior High Individual - \$200 & Plaque

Windsor Academy of Aerospace & Engineering Lili Aramli

3160 The Investigation of Pro-Inflammatory Immune Cells Triggered By Exercise and Their Effect On Reproductive Cancer Tumor Models

Student(s) **Ana-Marlene Davis** **Grade 9** **Town** Broad Brook

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Windsor Academy of Aerospace & Engineering Joshua Madore

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

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

* EnergizeCT Alternative & Renewable Energy Awards --- 2nd Place High School - \$200 Cash and Plaque
* EnergizeCT Future Sustainability Awards --- High School Finalist - Medallion
* CT Architecture Foundation - The William M. Mack, AIA Awards --- \$250 Amazon Gift Card from the Connecticut Architecture Foundation, William M. Mack, AIA Award for Innovation in Building Performance.

Windsor Academy of Aerospace & Engineering Lili Aramli

6107 Next-Generation Interplanetary Rovers: Embedded Neuromorphic Artificial Intelligence Control For Autonomous & Adaptive Terrain Exploration

Student(s) **Rithvik Suren** **Grade 10** **Town** Ellington

* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion

Windsor Madina Academy Jemilat Salami-Oyenuga

1012 Photoprotection of yeast, fact or fiction: Studying the effect of Ultraviolet ray C on the proliferation of Saccharomyces Cerevisiae via analysis in vitro cultivation

Student(s) **Salma Hassan** **Grade 8** **Town** Avon
Tajriyan Khan **Grade 8** **Town** Agawam
Sohyla Hassan **Grade 8** **Town** Avon

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 1st Place- Life Sciences MS Team- \$200 split, trophy & invitation to compete in Thermo Fisher Scientific Junior Innovator's Challenge

Windsor Madina Academy Jemilat Salami-Oyenuga

1019 Restoring Dead-Zones: The Role of High-Oxygen-Producing Vegetation in Assisting to Reduce Aquatic Hypoxia

Student(s) **Enaaya Mohammed** **Grade 8** **Town** Windsor
Nabaad Abdulkadir **Grade 8** **Town** Plantsville
Musfira Bhuiyan **Grade 8** **Town** Windsor

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Sciences Middle School Team - CSF Medallion
* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- MS Finalist - CSF Medallion
* EnergizeCT Future Sustainability Awards --- 1st Place Middle School - \$200 Cash and Trophy

Windsor The Loomis Chaffee School Fahmeed Sheehan

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

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

* Infosys Foundation Computer Science Awards --- 2nd Place High School - \$200, Plaque
* J.A. Augustine and H. Glista Awards --- \$100 H. Glista Award for Physical Sciences

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

Windsor The Loomis Chaffee School Fahmeed Sheehan

3051 Next-Generation E-Skin for Real-Time Monitoring to Prevent Livestock Disease Outbreak

Student(s) Hyeonho Kim **Grade** 10 **Town** Windsor

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 5th Place- Life Sciences Senior High- Plaque

Windsor The Loomis Chaffee School Fahmeed Sheehan

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

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

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
* American Society of Safety Professionals, CT Valley Chapter --- \$200 grade 9-12 project
* IEEE, Connecticut Section --- \$100 Honorable Mention
* Zepke Awards --- \$150 - For the Best Use of Electronic Circuitry- Senior High

Windsor The Loomis Chaffee School Zhaoyang Huang

3071 HTT-HDAC Axis links Major Depressive Disorder and Alzheimer’s Disease: A Transformer-Based Multi-Omics Dissection

Student(s) Yuechen Wang **Grade** 10 **Town** Windsor

* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion

Windsor The Loomis Chaffee School Fahmeed Sheehan

3019 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

* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- High School \$300 / plaque
* Association for Women Geoscientists --- Certificate & \$25 gift card given by CSEF

Woodbridge Amity Regional High School Sarah Reeves

6058 Designing a Hybrid Ultrasound and Ambient RF Wireless Charging System for a Pacemaker While Minimizing Misalignment Loss

Student(s) Karishma Balamurugan **Grade** 11 **Town** Orange

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion

Woodbridge Amity Regional High School Sarah Reeves

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

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

* Connecticut Association of Conservation and Inland Wetlands Commissions Environmental Sciences Awards --- HS Finalist - CSF Medallion
* University of Connecticut Academic Excellence Scholarship --- University of Connecticut Academic Excellence Scholarship to a rising senior (amount undefined)
* Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF
* Southeastern New England Marine Educators (SENEME) --- \$100 award and membership for student and teacher in SENEME - 1st Place Senior

Woodbridge Amity Regional High School Sarah Reeves

3180 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

* Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- High School- Certificate, \$75.00 gift card given by ONR

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

Woodbridge Amity Regional High School Lindsay McCarthy

6012 Developing a Bio-Hybrid Luminescent Solar Concentrator Using Carbon Quantum Dots, Natural Fluorophores, and Kaolin Powder for Enhanced Solar Energy Harvesting

Student(s) **Aryan Shrivastav** **Grade 11** **Town** Orange

- * EnergizeCT Alternative & Renewable Energy Awards --- 1st Place High School - \$300 Cash and Plaque
- * EnergizeCT Future Sustainability Awards --- 3rd Place High School - \$100 Cash and Plaque
- * Westinghouse Electric Company/New England Chapter of North American Young Generation in Nuclear --- 1st place, Excellence in Energy Research, \$100 cash award
- * Jon Chapitis Memorial Award --- Jon Chapitis Spirit of Innovation Award - HS \$200

Woodbridge Amity Regional High School Lindsay McCarthy

3127 Investigating the Impact of BRCA1/2 Co-Expression Gene Silencing on Chemotherapy Efficacy in Ovarian Cancer

Student(s) **Charlotte Stannard** **Grade 12** **Town** Bethany

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion

Woodbridge Amity Regional High School Lindsay McCarthy

3137 In Vitro Assessment of Lactase Production Activity, Efficiency, and Survivability of *L. acidophilus* in Non-Dairy Carriers

Student(s) **Mingze Weng** **Grade 12** **Town** Orange

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- 3rd Place- Life Sciences Senior High- \$100 & Plaque

Woodbridge CT-STEM Foundation Sarah Reeves

3171 Investigating the Impact of Governance Effectiveness on Economic Crisis Resilience: A Fixed-Effects Analysis of G-20 Countries During the Great Recession and COVID-19

Student(s) **David Babic** **Grade 10** **Town** Woodbridge

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion

Woodbridge CT-STEM Foundation Christine Leventhal

3153 Classification of Migraine Subtypes Using Machine Learning: A Study of Data Bias

Student(s) **Kehara Morton** **Grade 12** **Town** Darien

- * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF Medallion