



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:

- Fair Category
- Finalist standing in regular fair (1st, 2nd, etc)
- Project number

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

Life Sciences - High School Individual

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

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

Student(s) Lula Wang **Grade** 11 **Town** Old Greenwich

- * 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

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

Greenwich Brunswick School Dana Montanez

3177 Preventing Zoonotic Parasitic Growth in Freshwater Aquaculture Using Aerogel Praziquantel Feed Additives

Student(s) Sawyer Sacks **Grade** 11 **Town** Greenwich

- * 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

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

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

[SchTown]	[School]	[Teacher]	[Proj#]	[Project Title]	Student(s)	Grade	Town
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	Grade 11	Town 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 							
Greenwich	Sacred Heart Greenwich	Joyce Reed	3015	Understanding The Effects of Music Usage On Caregivers of Alzheimer's Patients	Grace Muccia	Grade 12	Town Rye
<ul style="list-style-type: none"> * Connecticut Science Fair Association Life Science Awards with The Jackson Laboratory --- Finalist - Life Science Senior High - CSF 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	Raymond Li	Grade 11	Town 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 							
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	Nishant Jain	Grade 11	Town 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 							
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	Sahithi Aliminate	Grade 11	Town Milford
<ul style="list-style-type: none"> * 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) 							
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	Leah Dombrow	Grade 11	Town Westport
<ul style="list-style-type: none"> * 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 							
Rocky Hill	Rocky Hill High School	Sharon Parker	3053	The correlation of gut microbes with depression in patients with multiple sclerosis	Tanisha Sahu	Grade 11	Town Rocky Hill
<ul style="list-style-type: none"> * 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) 							

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

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

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

- * 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

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

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

Student(s) Mridhulaa Rajagopal **Grade** 12 **Town** Avon

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

New Haven Hopkins School Z Ping Lin

3078 Investigating the Role of Rad52 Inhibition in HR Repair in Ovarian Cancer

Student(s) Riya Rao **Grade** 12 **Town** Woodbridge

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

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

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

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]

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

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

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

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

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)

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

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

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

Greenwich Greenwich High School Andrew Bramante

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

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

- * 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

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

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

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

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

New Haven Engineering and Science University Magnet Alyssa Anderson

3156 Capturing Carbon Dioxide with Chemical Solutions of Varying Alkalinity

Student(s) Anabelle Silverman **Grade** 9 **Town** New Haven

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

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

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

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

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 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

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

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

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

* 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

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

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

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

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

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

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

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

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, opport. to shadow an audiologist

Life Sciences - High School Teams

Greenwich Brunswick School Dana Montanez

3519 Comparative Analysis of Biopolymer Hydrogels: an Investigation of Degradability, Nitrogen Leaching, and Plant Growth.

Student(s) Chris Pedlow **Grade** 11 **Town** Cos Cob
Gabriel Levy **Grade** 11 **Town** Greenwich

* 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

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

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]

Greenwich Brunswick School Dana Montanez

3507 Antioxidant Delivery using Food Grade Nanoclay as a strategy to emulsify lipids and potentially reduce LDL oxidation.

Student(s) **Nathaniel O'Connor** **Grade 11** **Town** Chappaqua
Tyrus Ostrowski **Grade 11** **Town** Port Chester

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

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

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

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

Greenwich Brunswick School Dana Montanez

3530 An investigation of Methylene Blue's Neuroprotective ability to Inhibit Excess Glutamate in aquatic Invertebrates.

Student(s) **Jayden Montanez** **Grade 11** **Town** Greenwich
Callum Holl **Grade 11** **Town** Old Greenwich

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

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

Life Sciences - Middle School 7th Grade

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

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

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 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

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

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

Life Sciences - Middle School 8th Grade

Greenwich Central Middle School Andrew Bramante

2503	In situ, Natural Degradation of Cyanotoxins in Water by <i>L. acidiphilus</i> , with Concurrent Stimulation of the Aquatic Ecosystem
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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

North Haven Slate School Jennifer Staple-Clark

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

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
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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

Danbury St. Gregory the Great School Christine Fahey

2511	Novel & Portable Cards For Detection of Common Food Allergens
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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

Greenwich Eastern Middle School Andrew Bramante

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

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

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 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

Life Sciences - Middle School Teams

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

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

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

[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

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

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

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

Physical Sciences - High School Individual

Greenwich Greenwich High School Andrew Bramante

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

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

[SchTown] [School] [Teacher]
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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

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

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

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

Plainville Plainville High School Michelle Bellinger

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

Student(s) Raman Kasabrukhou **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

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

[SchTown] [School] [Teacher]
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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

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

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

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

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

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

[SchTown] [School] [Teacher]
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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

Physical Sciences - High School Teams

Greenwich Brunswick School Dana Montanez

6504 Teaching Artificial Intelligence to Detect Focal Seizures Accurately Using a Camera System.

Student(s) **Jude Evans** **Grade** 10 **Town** Greenwich

Collin McCreath **Grade** 10 **Town** Ryebrook

- * 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

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)

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

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

[SchTown] [School] [Teacher]
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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

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

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

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

Physical Sciences - Middle School 7th Grade

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

Student(s) **Raji Doshi** **Grade 7** **Town** Farmington

- * 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

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New Haven Engineering and Science University Magnet Alyssa Anderson

5008 BiteSight: Development of a Mobile Deep Learning Application for Bug Bite Identification

Student(s) Cayden Joseph **Grade 7** **Town** West Haven

- * 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

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

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

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

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

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Physical Sciences - Middle School 8th Grade

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

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

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

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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

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 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

Physical Sciences - Middle School Teams

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

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 New Haven's Milton Fisher Awards for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash

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[Proj#] [Project Title]

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

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

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

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