



Connecticut Science & Engineering Fair

Quinnipiac University

March 6 - 18, 2023

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

Final Judging Results

Award Legend

Plaque Winners = 1, 2, ...
 Medalists = m
 Winners = w

Computer Science Awards

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

Middle School

2534 L8 Design and Implementation of a Novel Machine-Learning-Based System Utilizing Feature Extraction for Precise Cervical Cancer Detection via Biopsy Sample

Award 1 Student(s) Ethan Joseph Grade 8 Town West Haven

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 8th grade - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- 1st Place Middle School - \$300, Trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place Middle School - \$300 and Trophy, Medallion
- * Infosys Foundation Computer Science Awards --- 1st Place Middle School - \$300, 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 8th grade - \$200 & trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * 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
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 8th grader - GENIUS Olympiad Competition with stipend (421)
- * GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10

5514 P8 Classifying Lenticular Galaxies with the help of a Convolutional Neural Network

Award 2 Student(s) Ishanvi Jaiswal Grade 8 Town Wilton

- * Infosys Foundation Computer Science Awards --- 2nd Place Middle School - \$200, Trophy

4013 PT A project to benefit all of the community, with dual-language stock market course and ML stock price predictor, focusing on the Latino and Hispanic community.

Award 3 Student(s) Alejandro Mayorga Grade 8 Town Danbury
 Matthew Guzman Grade 8 Town Danbury CT 06810

- * M&T Bank Mathematics Awards --- 2nd Place Middle School- \$200 and Trophy
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- * Infosys Foundation Computer Science Awards --- 3rd Place Middle School- \$100, Trophy
- * Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners
- * Urban School Challenge 1st Place Middle School Awards --- USC Highest Placing 7th grader- Project Oceanology's Ocean Camp - \$875
- * Jon Chapitis Memorial Award --- John Chapitis Spirit of Innovation Award - MS \$100



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High School

3049 LS Detection and Remediation of War Polluted Soil Using Deep Learning Robot and Soil Remediating Bioplastic (BioCore)

Award 1 Student(s) Yuree Oh Grade 11 Town Seoul

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Infosys Foundation Computer Science Awards --- 1st Place High School - \$500, Plaque
- * National Geographic That's Geography! - Cultivating Empathy for the Earth Award --- Certificate & \$100 Cash from Society for Science

6513 PST ParkBD: A Novel Multi-Modal Deep Learning Framework for Biomarker Identification and Drug Repurposing in Parkinson's Disease

Award 2 Student(s) Shriya Jonnalagadda Grade 11 Town Brookfield
 Diya Girish Kumar Grade 11 Town Brookfield

- * Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- * Infosys Foundation Computer Science Awards --- 2nd Place High School - \$300, Plaque
- * Lunch with a Patent Attorney --- Lunch with a Patent Attorney

3100 LS Developing a machine learning model to preoperatively evaluate patient outcomes for complex orthopedic fractures

Award 3 Student(s) Suhail Irshad Grade 11 Town Orange

- * M&T Bank Mathematics Awards --- High School Finalist - Medallion
- * Infosys Foundation Computer Science Awards --- 3rd Place High School- \$200, Plaque

6011 PS Development of Eco-Navigation System for Reducing Greenhouse Gas Emissions of Ships using Wind-Assisted Flettner Rotors

Award m Student(s) Thomas Ewald Grade 11 Town Greenwich

- * Connecticut Science Fair Association Physical Science Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque
- * Stanley Black & Decker Applied Technology Awards --- 2nd Place High School - \$300 and Plaque Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Innovative Concept Award - \$250
- * CSEF Board of Directors Award --- Certificate and \$100 given by CSF
- * Connecticut Invention Convention "Next Step Inventors" --- Next Step Inventor Trophy & Invitation to compete at the 2023 Invention Convention, June 10



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3010 LS Identification of Therapeutics for Neurological Disorders through Development of a Novel Machine Learning System for Predicting Drug-Gene Interactions in the Glymphatic System

Award m **Student(s)** Ashley Malkin **Grade** 10 **Town** Greenwich

- * Life Science Awards with support from Boehringer Ingelheim --- 5th Place- Life Sciences Senior High- Plaque
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Alexion Biotechnology Awards --- 3rd Place Biotechnology Senior High - \$200 & plaque

6507 PST Using Surveys to Study the Evolution of Art Generated by Artificial Intelligence

Award m **Student(s)** Helena Chaine **Grade** 10 **Town** Orange
 Eric Huang **Grade** 10 **Town** Guilford

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

6069 PS Probing Neural Networks for Visio-Linguistic Feature Binding

Award m **Student(s)** Minzhi Zhang **Grade** 11 **Town** Wallingford

- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, gift packs, & T-shirt - For Excellence in Mathematics

6061 PS Creating and Testing a Novel Drone Swarm Mapping and Surveillance Algorithm

Award m **Student(s)** Francis Cavallaro **Grade** 12 **Town** Orange

- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * U.S. Air Force --- Certificate & USAF Merchandise Package
- * IEEE, Connecticut Section --- \$100 Honorable Mention
- * Otis Elevator Company --- HS Excellence Award - \$250.