



Connecticut Science & Engineering Fair

Quinnipiac University

March 3 - 15, 2025

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

Mathematics Awards

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

Middle School

Bozrah Fields Memorial School Joshua Fish

4011 PT What impact will different sphere and track variables have on the performance of a model roller coaster?

Award 1

Student(s) Benjamin Savoie

Grade 8 Town Gilman

Isaiah Negron-Rygielski

Grade 8 Town Bozrah

* Connecticut Science Fair Association Mathematics Awards --- 1st Place Middle School- \$200 and Trophy
* U.S. Air Force --- Certificate & USAF Merchandise Paskage

Bozrah Fields Memorial School Joshua Fish

4016 PT A Study of the Impact of Slope, Materials, and Lubrication on Friction.

Award 2

Student(s) Elise Kobelski

Grade 8 Town Bozrah

Hannah East

Grade 8 Town Bozrah

Serena BunkerCai

Grade 8 Town Bozrah

* Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 3rd Place- Physical Sciences MS Team- trophies
* Connecticut Science Fair Association Mathematics Awards --- 2nd Place Middle School- \$150 and Trophy
* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
* Connecticut College-Physics, Astronomy, & Geophysics Dept. --- Junior Award: Certificate, \$100 Cash
* J.A. Augustine and H. Glista Awards --- \$100 for excellence in Physical Sciences
* Susan and Stanley Lessoff Memorial --- Susan and Stanley Lessoff Memorial Award - \$250 Cash and Plaque MS

Danbury Saint Gregory the Great School Christine Fahey

5518 P8 The Most Efficient Way to Solve a Rubik's Cube

Award 3

Student(s) Leonardo Lazzara

Grade 8 Town Brookfield

* Connecticut Science Fair Association Mathematics Awards --- 3rd Place Middle School - \$100 and Trophy

Danbury Wooster School Parvin Taraz

6077 PS CTRQNetS & LQNetS: Continuous Time Recurrent and Liquid Quantum Neural Networks

Award 1

Student(s) Alejandro Mayorga

Grade 10 Town Danbury

* Connecticut Science Fair Association Mathematics Awards --- 1st Place High School- \$300 and Plaque
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

Redding Joel Barlow High School Paul Testa

6059 PS Evaluating Market Efficiency Through Deep Learning: A Performative Analysis of LSTM Neural Networks, Actor-Critic Reinforcement Learning Models, and Technical Indicators

Award 2

Student(s) Brian Weiss

Grade 11 Town Redding

* Connecticut Science Fair Association Mathematics Awards --- 2nd Place High School- \$200 and Plaque
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion



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New Haven Wilbur Cross High School Michael Sang

6070 PS Exploring the Convergence of Juggler Sequences

Award 3 **Student(s)** Julian Theodore **Grade** 11 **Town** New Haven

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- Finalist - Physical Sciences Senior High - CSF Medallion
- * Connecticut Science Fair Association Mathematics Awards --- 3rd Place High School - \$100 and Plaque
- * Urban School Challenge Awards with Connecticut Academy of Science & Engineering and OTIS --- 2nd Place High School - \$200 and Plaque, Medallion
- * University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Engineering or Technology, Grade 11 only - \$30,000 (\$7500/year)

Greenwich Greenwich High School Andrew Bramante

6009 PS Consideration of Location-specific Weather and Topographic Datasets to Model Efficient Deployment of Forest Fire Flame Retardants

Award m **Student(s)** Iri Pullepu **Grade** 9 **Town** Old Greenwich

- * 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

South Windsor South Windsor High School Danel Eitel

6047 PS OatNET: Novel Neural Network architecture & mathematical model for reducing Dense Layer computational complexity via ternary weight decomposition & rank-1 magnitude approximation.

Award m **Student(s)** Karthik Srikumar **Grade** 10 **Town** South Windsor

- * Connecticut Science Fair Association Physical Science Awards with CMS Dorothy Minervino --- 2nd Place- Physical Sciences Senior High Individual - \$200 & Plaque
- * Connecticut Science Fair Association Mathematics Awards --- High School Finalist - Medallion
- * Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
- * Quinnipiac University Scholarships --- \$30,000, 4 year scholarship (\$7500 per year) to Quinnipiac U. - HS Student in Computing
- * Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, , gift packs, & T-shirt - For Excellence in Mathematics

Wallingford Choate Rosemary Hall Dan Ismailescu

6078 PS Largest Area of an Empty Rectangle Amongst Points in a Unit Square

Award m **Student(s)** Benjamin Cha **Grade** 10 **Town** Tenaflly

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