Connecticut Science & Engineering Fair
Quinnipiac University
March 4 - 16, 2024

Computer Science Awards

Final Judging Results

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

Middle School

Windsor   Academy of Aerospace and Engineering   Michelle Bellinger

4001	PT	Combining Optical Wireless Communications (OWC) and Neuromorphic Architecture for Large-Scale Computations

Award 1   **Student(s) Rithvik Suren**   **Grade** 8   **Town** Ellington

Aarav Chevva   **Grade** 8   **Town** Ellington

* Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences MS Team- $150 each & trophy
* Infosys Foundation Computer Science Awards --- 1st Place Middle School - $300, Trophy
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- Middle School- Certificate, $25 gift card given by CSEF
* Thermo Fisher Scientific Junior Innovators Challenge --- Nomination to compete in the Thermo Fisher Scientific JIC for selected top MS winners

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Greenwich   Eastern Middle School   Andrew Bramante

2512	L8	Emotionless Negotiator Droid

Award 2   **Student(s) Louw Otto**   **Grade** 8   **Town** Riverside

* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Sciences 8th grade - CSF Medallion
* Stanley Black & Decker Applied Technology Awards --- Middle School Finalist - Medallion
* Infosys Foundation Computer Science Awards --- 2nd Place Middle School - $200, Trophy

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Wilton   Middlebrook School   Janica Bagosy

5510	P8	Burnt: A web-based application to help adolescents self-assess and seek help for stress and poor mental health

Award 3   **Student(s) Jackson Norful**   **Grade** 8   **Town** Wilton

* Connecticut Science Fair Association Physical Science Awards --- 4th Place- Physical Sciences 8th Grade Ind. - trophy
* Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place Middle School - $200, Trophy
* Infosys Foundation Computer Science Awards --- 3rd Place Middle School- $100, Trophy
* Alexion Biotechnology Awards --- Finalist - Biotechnology 8th grade - CSF Medallion

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Bridgeport   Geraldine Johnson School   Kelly Mulligan

1009	LT	Can you detect Artificial Intelligent generated Text from Human Generated Text?

Award m   **Student(s) Angelica Philogene**   **Grade** 8   **Town** bridgeport

Kee'maja Lilley   **Grade** 8   **Town** Bridgeport

* Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place Middle School - $100, Trophy
* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Middle School Finalist - Medallion
* Infosys Foundation Computer Science Awards --- Middle School Finalist - Medallion

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Computer Science Awards

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

High School

South Windsor   South Windsor High School   Kevin Snyder

| 6013 | PS | Scientific understanding of solar physics with image based neural networks |

Award **1**   **Student(s) Pragyan Yadav**   **Grade** 12   **Town** South Windsor

* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
* Infosys Foundation Computer Science Awards --- 1st Place High School - $500, Plaque
* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Physical Sciences - Co-Op $100 Gift Certificate

Cheshire   Cheshire High School   Julie Barker

| 6045 | PS | A Torticollis Tilt Alerting Device using MPU6050 Sensor, Vibration motor, and iOS and Android App Built Using Flutter |

Award **2**   **Student(s) Suchita Srinivasan**   **Grade** 10   **Town** Cheshire

* Infosys Foundation Computer Science Awards --- 2nd Place High School - $300, Plaque
* Robert Francoeur Memorial Awards --- Creative or innovative project in engineering, computer science or mathematics by female students - $100
* Dreams Unlimited Award --- $150 cash award and certificate
* Lunch with a Patent Attorney --- Lunch with a Patent Attorney

Greenwich   Greenwich High School   Andrew Bramante

| 6019 | PS | Reinforcement Learning Optimization of Placement of Public Vehicle Charging Stations using a Novel Parking Demand Model |

Award **3**   **Student(s) Marley Wies**   **Grade** 10   **Town** Old Greenwich

* M&T Bank Mathematics Awards --- 3rd Place High School - $200 and Plaque
* Infosys Foundation Computer Science Awards --- 3rd Place High School- $200, Plaque
* Society of Women Engineers - Hartford Section --- Scientific Calculator
* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software, gift packs, & T-shirt - For Excellence in Mathematics

Greenwich   Greenwich High School   Andrew Bramante

| 3113 | LS | Implementation of a Multi-Objective Genetic Algorithm to Optimize Resource Allocation in Disease Prevention |

Award **m**   **Student(s) Isaac Bell**   **Grade** 10   **Town** Riverside

* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Otero Family Award --- The Otero Family Award; $250 cash

Greenwich   Greenwich High School   Andrew Bramante

| 3045 | LS | Implementation of Wearable, Bluetooth Gyroscopic Sensing for Smartphone Remote Monitoring of Patient Mobility |

Award **m**   **Student(s) Alexander Zhao**   **Grade** 11   **Town** Greenwich

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

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Computer Science Awards

Award Legend

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

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

Hamden   Hamden Hall Country Day School   Gina D'Angelo

| 6025 | PS | Deep learning based drug response prediction algorithm about synergistic and antagonistic responses of cell lines and drug combos. |

Award   **m**   **Student(s) Jiahui Chen**   **Grade** 11   **Town** New Haven

* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
* Lunch with a Patent Attorney --- Lunch with a Patent Attorney

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New Haven   Engineering and Science University Magnet School   Roger Rushworth

| 6036 | PS | Evaluating Hyperparameter Tuned Machine Learning Classifiers for Pancreatic Cancer Detection via Urinary Biomarkers |

Award   **m**   **Student(s) Nivrith Ananth Iyer**   **Grade** 10   **Town** West Haven

* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- Senior High Finalist - Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

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New Haven   Engineering and Science University Magnet School   Roger Rushworth

| 3050 | LS | Implementation of a Computationally Efficient Machine-Learning-Based System to Diagnose Cervical Cancer via Numerical Feature Extraction and Multivariate Regression |

Award   **m**   **Student(s) Ethan Joseph**   **Grade** 9   **Town** West Haven

* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 4th Place High School - Plaque, Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

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Stamford   Academy of Information Technology and ~~Engineering~~   Joshua Bogard

| 3035 | LS | A Novel Machine Learning Model for Estrous Cycle Classification in Mice |

Award   **m**   **Student(s) Saachi Goyal**   **Grade** 11   **Town** Stamford

* Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
* Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place High School - $300, Plaque
* The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place High School - $500 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

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Stamford King School Victoria Schulman

| 6072 | PS | Clonal Evolution of Non-Small Cell Lung Cancer Reveals TP53/EGFR Maintenance and SETD2 Selection in Metastases |

Award | **m** | **Student(s)** Parker Hayashi | **Grade** 11 | **Town** Riverside

* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion

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Stamford King School Victoria Schulman

| 6097 | PS | DETICKT IT: A Machine Learning-Based Application for Real-Time Tick Identification and Spatiotemporal Disease Risk Assessment |

Award | **m** | **Student(s)** Antonia Kolb | **Grade** 12 | **Town** New Canaan

* Connecticut Science Fair Association Physical Science Awards --- 3rd Place- Physical Sciences Senior High Individual - $200 & Plaque
* Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Christopher T. Borowiec Excellence in Innovation Awards --- $100 Cash for Excellence in Innovation with emphasis in Artificial Intelligence

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Trumbull Christian Heritage School Daniel Cote

| 6102 | PS | Vision Through AI: Assisting the Visually Impaired By Building AI Smart Glasses |

Award | **m** | **Student(s)** Daylin Jerome | **Grade** 11 | **Town** Bridgeport

* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
* Office of Naval Research- U.S. Navy / U.S. Marine Corps --- HS School- Certificate, $75.00 gift card given by ONR
* University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or mathematics, Grade 11 only - $30,000 ($7,500/year)
* Wisner Chairman's Award --- $500 cash & Plaque HS
* Susan and Stanley Lessoff Memorial --- Susan and StanleyLessoff Memorial Award - $250 Cash and Plaque HS

Wallingford Choate Rosemary Hall Andrew Murgio

| 6525 | PST | AgriBotanical: An Intelligent Continuum-Maneuver Robot for Monitoring and Managing Arboreal Wild Bee Colonies |

Award | **m** | **Student(s)** Jingyuan Zhang | **Grade** 11 | **Town** Wallingford
| | | Xiyin Yang | **Grade** 11 | **Town** Wallingford

* Connecticut Science Fair Association Physical Science Awards --- 1st Place- Physical Sciences Senior High Team- $500 (split) & Plaque
* Stanley Black & Decker Applied Technology Awards --- 1st Place High School - $500 and Plaque, Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Pepsico Engineering Awards --- 2nd Place- Engineering Senior High- $300 & plaque
* MTU Aero Engines North America, Inc. --- MTU Aero Engines Mechanical Engineering Applied Principles Award - $250
* IEEE, Connecticut Section --- $250 Honors Award -Senior
* Arthur & Ruth Mensing Awards --- Mensing Award Excellence in the High School Physical Sciences - $500

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

Windsor Academy of Aerospace and Engineering Michelle Bellinger

| 6009 | PS | Reinforcing the Cybersecurity of Medical Data via Software Countermeasures against Malware in Heart Monitoring Technology |

Award **m** **Student(s) Sujay Chava** **Grade** 11 **Town** Ellington

* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
* Stanley Black & Decker Applied Technology Awards --- 3rd Place High School - $ 200 and Plaque, Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
* University of Connecticut - Early College Experience --- UCONN Early College Experience Program: Frontiers in Science - Co-Op $100 Gift Certificate
* Zepke Awards --- $125 - For the Best Use of Electronic Circuitry- Senior High

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Windsor The Loomis Chaffee School Koby Osei-Mensah

| 6012 | PS | Machine Learning Approach for Estimating Razor Kinematic Variables MR and Rsq in Supersymmetric Proton Collision Searches |

Award **m** **Student(s) Idil Türkmen** **Grade** 11 **Town** Mersin

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

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Woodbridge Amity Regional High School Catherine Piscitelli

| 6010 | PS | Creation of an Environment-Adaptive Reaction Algorithm Implemented on a Novel Smart Fluidic Servo Actuator to Provide a Sense of Pseudo-Exproprioception and Exteroception |

Award **m** **Student(s) Aditi Bhattamishra** **Grade** 12 **Town** Orange

* Connecticut Science Fair Association Physical Science Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
* Stanley Black & Decker Applied Technology Awards --- Senior High Finalist - Medallion
* Infosys Foundation Computer Science Awards --- Senior High Finalist - Medallion
* Pepsico Engineering Awards --- Finalist - Engineering High School - CSF Medallion
* Wisner Memorial Award --- $ 1000 cash + Silver Bowl ($2000 cash if a team) High School

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