



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

Computational Biology and Bioinformatics Awards

Award Legend

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

[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

High School

3024 LS Non-Invasive Pre-screening Approach for Early Detection of The Human Papillomavirus (HPV) to Aid in Cervical Cancer Prevention in Underrepresented Demographics

Award 1 Student(s) Ana-Lois Davis Grade 11 Town Broad Brook

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- 1st Place High School - \$500, Plaque
- * The Jackson Laboratory with Connecticut Academy of Science and Engineering Urban School Challenge Awards --- 1st Place High School - \$500 and Plaque, 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
- * University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or Mathematics, grade 11 only \$28,000 (\$7,000/year)
- * Jon Stone Memorial Award --- Jon Stone Award for Innovative Engineering- \$100

6077 PS Developing a Machine-Learning Based Algorithm to Identify and Predict Alzheimer's Disease from Clinical Notes

Award 2 Student(s) Haseeb Chaudhry Grade 11 Town Orange

- * Pfizer Computational Biology and Bioinformatics Awards --- 2nd Place High School - \$300, Plaque
- * University of New Haven Scholarship Awards --- University of New Haven 4 year scholarship - \$96,000 (\$24,000 per year)



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3040 LS TopoCan: A Novel Histopathological System for Clinical Prediction with Topology- and Spatial Genome-Informed Deep Learning

Award 3 Student(s) Isabella Wu Grade 11 Town Wallingford

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- 3rd Place High School - \$200, Plaque
- * Society for In Vitro Biology --- Certificate and \$25 gift card given by CSEF

3002 LS Classify Liver cancer using Uncertainty-aware CNN

Award m Student(s) Qiwu Jiang Grade 11 Town Windsor

- * Life Science Awards with support from Boehringer Ingelheim --- Finalist - Life Science Senior High - CSF Medallion
- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
- * Alexion Biotechnology Awards --- Finalist - Biotechnology Senior High - CSF Medallion
- * University of Hartford Scholarships --- University of Hartford Scholarship - For Excellence in Science or Mathematics, grade 11 only \$28,000 (\$7,000/year)

6025 PS Modeling Subcortical-Cortical Interactions During Reward-Based Decision Making Using a Hierarchical Temporal Memory Artificial Neural Network

Award m Student(s) Annika Yun Grade 11 Town Orange

- * Pfizer Computational Biology and Bioinformatics Awards --- Senior High Finalist - Medallion
- * Wisner Chairman's Award --- \$500 cash & Plaque HS