



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 12 - 17, 2018

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### Final Judging Results

## Computer Science Awards

#### Award Legend

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

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

### Middle School

5031 P7 A computer can use machine learning to teach itself to be as good or better at blackjack than the experts.

Award 1 Student(s) C. Brooks Harris Grade 7 Town Greenwich

- \* Lockheed Martin Physical Sciences Awards --- 4th Place- Physical Sciences 7th Grade Ind. - trophy and Invitation Compete in Broadcom MASTERS
- \* People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place Middle School- \$100 from ATOMIC, and Trophy, \$200 from People's United Bank
- \* Computer Science Awards --- 1st Place Middle School - \$300, Trophy and Medallion

5547 P8 Image Recognition to Diagnose Lyme Disease

Award 2 Student(s) Khushi Parikh Grade 8 Town Danbury

- \* Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences 8th Grade Ind.- \$300 & trophy, invite to compete Broadcom MASTERS
- \* People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- \* Petit Family Foundation Women in Science & Engineering Awards --- 1st Place- Middle School \$300 / trophy
- \* CASE • PepsiCo Urban School Challenge Awards with IBM --- 1st Place Middle School - \$300 and Trophy, Medallion
- \* Computer Science Awards --- 2nd Place Middle School - \$200, Trophy and Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* 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
- \* Connecticut Science Teachers Association's Marty Tafel Student Research Award --- Physical Sciences 8th Grade - \$500 and invite to CSTA Award Banquet
- \* Urban School Challenge 1st Place Middle School Awards --- Highest Placing 8th grader- GENIUS-Olympiad Competition -\$500 travel stipend
- \* GENIUS Olympiad --- GENIUS Olympiad Competition for Highest Placing USC 8th grade Project
- \* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

4015 PT Preventing SIDS From Suffocation

Award 3 Student(s) Ellina Medovnikov Grade 8 Town Woodbridge  
Audrey Marin Grade 8 Town Woodbridge

- \* Lockheed Martin Physical Sciences Awards --- 1st Place- Physical Sciences MS Team- \$100 each & trophy, invite to compete Broadcom MASTERS
- \* Computer Science Awards --- 3rd Place Middle School- \$100, Trophy, Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* Spirit of Invention Award --- \$100 Cash and Plaque for Inventive Concepts



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5542 P8 Acoustic Anomaly Detector  
Award m Student(s) Brendan Glastris Grade 8 Town Burlington

- \* Barnes Aerospace Applied Technology Awards --- 2nd Place Middle School - \$200 and Trophy, Medallion
- \* Computer Science Awards --- Middle School Finalist - Medallion
- \* Connecticut Academy of Audiology --- \$150 Award MS- For Excellence in Audiology and Acoustics, opport. to shadow an audiologist

5535 P8 Using Robotics for Investigating Underwater Habitats  
Award m Student(s) Morgan Tainter Grade 8 Town Gilman

- \* People's United Bank Mathematics Awards - with ATOMIC --- Middle School Finalist - Medallion
- \* Petit Family Foundation Women in Science & Engineering Awards --- Middle School Finalist - Medallion
- \* Computer Science Awards --- Middle School Finalist - Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering Middle School - CSF Medallion
- \* Milton Fisher Science Fair Award for Innovation and Creativity --- For Excellence in Creativity and Innovation by a Middle School student, \$100 cash
- \* Barker Mohandas Awards for Transportation Research --- \$100 Cash & Plaque for Excellence in Transportation Related Research- Middle School
- \* Leask/Francoeur Family Awards --- 1st Place Middle School- For innovation electrical engineering or computer science - \$200 cash
- \* Dreams Unlimited Award --- \$100 Cash Award + Certificate

#### High School

6014 PS Fast Point-based Raytracing with Sphere Bounding Volume Hierarchies  
Award 1 Student(s) Daniel Pfrommer Grade 12 Town Darien

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Computer Science Awards --- 1st Place High School - \$400, Plaque, Medallion
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* Intel Excellence in Computer Science Award --- \$200 & certificate

6018 PS The Consonance of Alternative Tuning Systems  
Award 2 Student(s) Aresh Pourkavoos Grade 9 Town Avon

- \* People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
- \* Computer Science Awards --- 2nd Place High School - \$300, Plaque, Medallion
- \* Intel Excellence in Computer Science Award --- \$200 & certificate
- \* U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
- \* Leask/Francoeur Family Awards --- 1st Place High School- For innovation electrical engineering or computer science - \$200 cash



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3062 LS Using a Machine Learning Algorithm to Predict if a Breast Tumor is Malignant or Benign  
 Award **3** Student(s) **Aniruddha Murali** Grade 11 Town Westport

- \* People's United Bank Mathematics Awards - with ATOMIC --- 1st Place High School- \$150 from ATOMIC, Plaque, \$500 from People's United Bank
- \* Computer Science Awards --- 3rd Place High School- \$200, Plaque, Medallion
- \* Intel Excellence in Computer Science Award --- \$200 & certificate
- \* U.S. Metric Association --- Certificate & \$25 Amazon gift card given by CSEF
- \* Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF

6025 PS Electronic Stethoscope System for Monitoring and Analyzing Bowel Sounds  
 Award **m** Student(s) **Abhi Mohnani** Grade 11 Town Glastonbury

- \* Lockheed Martin Physical Sciences Awards --- Finalist - Physical Sciences Senior High - CSF Medallion
- \* Barnes Aerospace Applied Technology Awards --- Senior High Finalist - Medallion
- \* Computer Science Awards --- Senior High Finalist - Medallion
- \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
- \* Lunch with a Patent Attorney --- Lunch with a Patent Attorney
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Engineering: Electrical

3049 LS Use of Regression Analysis to Predict Future Outbreaks of Malaria  
 Award **m** Student(s) **Jamison Meindl** Grade 10 Town Riverside

- \* People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank
- \* Environmental Sciences Awards with CACIWC --- HS Finalist - CACIWC gifts, CSF Medallion
- \* Computer Science Awards --- Senior High Finalist - Medallion
- \* Future Sustainability Awards - Eversource /energizeCT --- High School Finalist - Medallion
- \* Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF
- \* American Society for Quality - Thames Valley Section --- \$250 Cash Award
- \* Yale Peabody Museum --- Family "six-pack" of free passes to the Yale Peabody Museum

3030 LS A Computer Model of The Effect of Familial Structure on the Spread of the Influenza Virus  
 Award **m** Student(s) **Isabelle Benson-Clarke** Grade 10 Town Marlborough

- \* Computer Science Awards --- Senior High Finalist - Medallion
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Computer Science



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6017	PS	Deep neural network based subspace learning of robotic manipulator workspace mapping
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**Award** **m**      **Student(s)** Peiyuan Liao      **Grade** 10      **Town** Kent

- \* Computer Science Awards --- Senior High Finalist - Medallion
  - \* UTC Aerospace Systems Engineering Awards --- Finalist - Engineering High School - CSF Medallion
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