



# Connecticut Science & Engineering Fair

## Quinnipiac University

March 14 - 18, 2017

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

### Final Judging Results

## People's United Bank Mathematics Awards with ATOMIC

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

**Award Legend**  
Trophy Winners = 1, 2, ...  
Medalists = m  
Winners = w

### Middle School

**Bozrah** Fields Memorial School Mrs. E. Brown

5008 P7 Orb Characteristics and Containment

Award 1 Student(s) **Elijah Ramthun** Grade 7 Town Bozrah

- \* Pepsico Physical Sciences Awards --- 5th Place- Physical Sciences 7th Grade Individual - trophy
- \* People's United Bank Mathematics Awards - with ATOMIC --- 1st Place Middle School- \$150 from ATOMIC, and Trophy, \$300 from People's United Bank
- \* UTC Aerospace Systems Awards for Excellence in Engineering --- 4th Place- Engineering 7th grade- trophy
- \* Alexion Biotechnology Awards --- 3rd Place- Biotechnology 7th grade- \$100 & trophy and Invitation Compete in Broadcom MASTERS
- \* Talcott Mountain Science Center & Academy --- Founder's Award - \$450 Saturday Mentorship Course at TMSC - Middle School Phys Science

**West Hartford** St. Timothy Middle School Danielle Locke

2017 L7 Hitting All the Right Notes: Unlocking the Formula to Oscar-Winning Original Songs

Award 2 Student(s) **Mia Porcello** Grade 7 Town West Hartford

- \* People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place Middle School- \$100 from ATOMIC, and Trophy, \$200 from People's United Bank

### High School

**Greenwich** Greenwich High School Andrew Bramante

3086 LS Detection of Premalignant Pancreatic Cancer via Computational Analysis of Serum Proteomic Profiles

Award 1 Student(s) **Shobhita Sundaram** Grade 11 Town Greenwich

- \* Pfizer Life Sciences Awards --- 1st Place- Life Sciences Senior High- \$500 & Plaque, Trip to compete at Intel ISEF
- \* People's United Bank Mathematics Awards - with ATOMIC --- 1st Place High School- \$150 from ATOMIC, Plaque, \$500 from People's United Bank
- \* Xerox Computer Science Awards --- 2nd Place High School - \$300, Plaque, Medallion
- \* H. Joseph Gerber Medal of Excellence, an award of the Connecticut Academy of Science and Engineering in partnership with CCAT --- Life Sci. Senior 1st HS- \$1,000, Solid Silver Medal of Excellence, invite to CASE Annual Mtg
- \* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF
- \* Intel Excellence in Computer Science Award --- \$200 & certificate
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Computer Science

**Greenwich** Greenwich High School Andrew Bramante

6074 PS Reliably Jammed Disk Packing: A Novel Feature of a Classic Geometry Problem

Award 2 Student(s) **Steven Ma** Grade 11 Town Greenwich

- \* People's United Bank Mathematics Awards - with ATOMIC --- 2nd Place High School- \$100 from ATOMIC, Plaque, \$300 from People's United Bank
- \* Mu Alpha Theta --- Certificate, \$25 Amazon gift card given by CSEF
- \* University of New Haven High School Awards in Engineering & Science --- \$100 For High School Project in Mathematics



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**Lakeville** The Hotchkiss School Richard Kyung

6030 PS A New Fast Algorithm for Finding Eigenvalues in Vibrating Structures

**Award** 3 **Student(s)** Seouk Jun Kim **Grade** 11 **Town** Lakeville

- \* People's United Bank Mathematics Awards - with ATOMIC --- 3rd Place High School - Plaque, \$200 from People's United Bank
- \* United Technologies Corporation Awards --- \$500 in UTC Common Stock, Plaque, Backpack, and Annual Report
- \* ASU Walton Sustainability Solutions Initiatives --- Certificate-Nomination to Compete in 2018 Sustainability Solutions Festival and \$25 Gift Card
- \* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

**Hamden** Sacred Heart Academy Elizabeth Christophy

6067 PS Computer-Aided Bleeding Detection in Wireless Capsule Endoscopy Images Using Deep Convolutional Neural Networks

**Award** m **Student(s)** Eunji Lee **Grade** 11 **Town** Trumbull

- \* Pepsico Physical Sciences Awards --- 2nd Place- Physical Sciences Senior High Individual - \$300 & Plaque, trip to compete at Intel ISEF
- \* People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
- \* Xerox Computer Science Awards --- 3rd Place High School- \$200, Plaque, Medallion
- \* Intel Excellence in Computer Science Award --- \$200 & certificate
- \* Maplesoft Awards for Applied Mathematics and Modeling --- Maple software - For Excellence in Mathematics

**Windsor** Academy of Aerospace and Engineering Dr. Bellinger

6523 PST Effect of Aerodynamic Leaf Design on Electrical Power Generation via a Network of Vertically Aligned Micro Wind Turbines.

**Award** m **Student(s)** Chris Rinaldi **Grade** 10 **Town** Enfield  
Vishakh Talanki **Grade** 10 **Town** south windsor  
Jean Pasato **Grade** 10 **Town** Middletown

- \* Pepsico Physical Sciences Awards --- 1st Place- Physical Sciences Senior High Team- \$500 (split) & Plaque
- \* People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
- \* CASE Urban School Challenge Awards with Aetna, IBM, & Travelers --- Senior High Finalist - Medallion
- \* Energize CT/eesmart Alternative/Renewable Energy Awards --- High School Finalist - Medallion

**Woodbridge** Amity Regional High School Deborah Day

6510 PST Analysis and Proving of "Cycloid" Universe Using Friedmann Equations and Torsion Cosmology

**Award** m **Student(s)** Kelsey McCormack **Grade** 12 **Town** Orange  
Himay Dharani **Grade** 12 **Town** Orange

- \* People's United Bank Mathematics Awards - with ATOMIC --- High School Finalist - Medallion
- \* American Meteorological Society --- Certificate & \$25 Amazon gift card given by CSEF