

# Professional Awards by Student

CertificateName	Title	Teacher	School
Aarushi Ganguly	Probablistic and image analysis of Parkinson's disease	Julie Smith	Greenhills
Place Code	Organization Name	Organization Description	
ST-2 ASA	American Statistical Association (ASA), Michigan Chapte	Scholarship of \$50 award of merit for the effective use of statistical methods in the science fair project plus a certificate	
ST-1 INVITR	Society for In Vitro Biology	Certificate of Achievement-State Winner	
Abhishek Menon with Geo	Comparing Empathy in math and science students to empathy in art students.	Patricia Hanlan	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
ST-1 APA	American Psychological Association	Certificate	
Adam Sun	Detection of Common Thoracic Disorders on Chest X-Rays with Deep CNNs	Rami Baroodi	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
ST-H ASA	American Statistical Association (ASA), Michigan Chapte	Certificate of recognition for the use of statistical methods in the student's science fair project	
2 USPTO	U.S. Patent and Trademark Office	The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field	
Aditi Sharma	InvasiMap: An Invasive Species Tracker Utilizing Gamification, NN and CBDC	Rami Baroodi	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
1 AIRWAS	Air Waste Management Association	\$300, Certificate, awards dinner at annual banquet for the project demonstrating a highly innovative approach to the studying of problem related to the management of an environmental challenge.	
ST-1 AWG	Association of Women GeoScientists	Certificate, State	

CertificateName	Title	Teacher	School	
2	IEEE	IEEE Southeastern Michigan Section		Framed certificate
1SO	INTEL	Intel Corporation		\$200 Cash Award and an Intel Certificate. Top project in Systems Software
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Akash Rathod		Using raw bamboo waste to sustainably purify water		
		David Chapman	MSEF-Okemos High School	
Place	Code	Organization Name	Organization Description	
ST-H	ASA	American Statistical Association (ASA), Michigan Chapter	Certificate of recognition for the use of statistical methods in the student's science fair project	
ST-1	NASA	NASA Earth System Science	Certificate	
ST-1	RICOH	Ricoh Corporation	Certificate as State Fair Winner, Science News Magazine - subscription, Senior winners eligible for \$50,000 competition	
ST-1	SIWI	Stockholm Junior Water Prize (Stockholm)	Certificate	
4	USPTO	U.S. Patent and Trademark Office	The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field	
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Alex Ge		Quantifying Sound		
		Patricia Hanlan	Detroit Country Day Upper	
Place	Code	Organization Name	Organization Description	
1S	USNAVY	United States Navy	letter of congratulations; certificate of achievement; a medallion, and \$50 award gift card	
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Alexander Wan		Cycle Generative Adversarial Networks for Automatic Cell Segmentation		
		James Didio	Novi Senior High School	
Place	Code	Organization Name	Organization Description	
1	IEEE	IEEE Southeastern Michigan Section	Framed certificate , \$100 Cash Award	
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Aminah Lawal with Shaza		Reducing, Reusing, and Recycling Styrofoam		
		Aamna Saleem	Huda School & Montessori	
Place	Code	Organization Name	Organization Description	
2J	ASM	ASM - Detroit Chapter	Certificate of Second Place, Junior Division	

CertificateName	Title	Teacher	School
Amol Kirtane	Home Water Usage Tracker	Rebecca Brewer	Troy High School
Place Code	Organization Name	Organization Description	
ST-H ASA	American Statistical Association (ASA), Michigan Chapter	Certificate of recognition for the use of statistical methods in the student's science fair project	
1EB INTEL	Intel Corporation	\$200 Cash Award and an Intel Award Certificate. Top project in Embedded Systems	
1 SIWI	Stockholm Junior Water Prize (Stockholm)	Certificate	
3 USPTO	U.S. Patent and Trademark Office	The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field	
Andrew Fischer	The effects of sugar as fuel and potassium nitrate as an oxidizer for rocket propulsion	Caitlin O'Connell	Detroit Catholic Central High
Place Code	Organization Name	Organization Description	
ST-2 ASA	American Statistical Association (ASA), Michigan Chapter	Scholarship of \$50 award of merit for the effective use of statistical methods in the science fair project plus a certificate	
ST-1 USAF	United States Air Force	Certificate, over-the-shoulder sling pack, power bank charger, dog tag USB flash memory drive, and a dual USB car charger.	
Andrew Kim	What passwords are the most effective?	Kim Osmonson	Novi Middle School
Place Code	Organization Name	Organization Description	
1 USAF	United States Air Force	Certificate, over-the-shoulder sling pack, power bank charger, dog tag USB flash memory drive, and a dual USB car charger.	
Angelo Ciarelli	Choose Your Mass	Jennifer Sanderson	St. Patrick Elementary
Place Code	Organization Name	Organization Description	
1J USNAVY	United States Navy	letter of congratulations; certificate of achievement; and a medallion	

CertificateName	Title	Teacher	School
Ania Uzieblo	The Effects of Urban Pollution on Tropospheric Ozone Levels	Marc Drougel	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
1 AMS	American Meteorological Society	Certificate of Outstanding Achievement	
1 AWG	Association of Women GeoScientists	Certificate	
Anirudh Cowlagi	Novel IOT-based Monitoring and Feedback System for Off-Grid PV Modules	Andrew Collins	Huron HS
Place Code	Organization Name	Organization Description	
2 IEEE	IEEE Southeastern Michigan Section	Framed certificate	
ST-1 YALE	Yale Science & Engineering Association, Inc.	Certificate and Pewter Medallion	
Aparna Reddy	Using Proteus mirabilis and the Type 6 Secretion System to Understand Immunity	Karen Lamb	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
4 USPTO	U.S. Patent and Trademark Office	The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field	
Arionna Nelson	Photoredox Catalysis & Benzyl Chloride Coupling Temperature Reactions	Felicia Benson	Cass Technical High School
Place Code	Organization Name	Organization Description	
ST-H ASA	American Statistical Association (ASA), Michigan Chapter	Certificate of recognition for the use of statistical methods in the student's science fair project	
1 USMA	US Metric Association Award	Certificate	
Astha Dalal	Analysis of the Correlation Between CD44, Cancer Stem Cell Marker	Rebecca Brewer	Troy High School
Place Code	Organization Name	Organization Description	
1 INVITR	Society for In Vitro Biology	Certificate of Achievement	

CertificateName	Title	Teacher	School
1 YALE	Yale Science & Engineering Association, Inc.		Certificate and Pewter Medallion
Bhuvna Murthy	The Use of Micellar Water to Aid Filtration of Oil-Based Contaminants in Pools	Andrew Collins	Huron HS
Place Code	Organization Name	Organization Description	
1 ISEF	ISEF	ISEF Finalist to the 2019 International Science and Engineering Fair in Phoenix, AZ from May 12-17, 2019	
Brandon Zhang	Decreasing Costs of Floating Wind Platforms	James Didio	Novi Senior High School
Place Code	Organization Name	Organization Description	
1S USNAVY	United States Navy	letter of congratulations; certificate of achievement; a medallion, and \$50 award gift card	
Brendan Nordstrom	H2O: Purify to Satisfy	Caitlin O'connell	Detroit Catholic Central High
Place Code	Organization Name	Organization Description	
1 SIWI	Stockholm Junior Water Prize (Stockholm)	Certificate	
Chaz Lumpkin Lumpkin wi	Comparing Drag Force Reductions Among Varying Angles in Tractor-Trailer Panels	Greg Mcmillan	Macomb Mathematics Science Technology Center
Place Code	Organization Name	Organization Description	
ST-2 ASA	American Statistical Association (ASA), Michigan Chapt	Scholarship of \$50 award of merit for the effective use of statistical methods in the science fair project plus a certificate	
Christine Zeng	Deep Learning based Melanoma Detection and Diagnosis System	Rebecca Brewer	Troy High School
Place Code	Organization Name	Organization Description	
1 USPTO	U.S. Patent and Trademark Office	The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field	

CertificateName	Title	Teacher	School
Collin Wang	Deep Learning to Evaluate Combinatorial Impact of Mutation on Gene Expression	Gillian Vonseeger	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
1 ISEF	ISEF	ISEF Finalist to the 2019 International Science and Engineering Fair in Phoenix, AZ from May 12-17, 2019	
4 USPTO	U.S. Patent and Trademark Office	The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field	
Colton Morris	The Novel Role of Titan in the Development of Chemoresistance in Ovarian Cance	Shernaz Minwalla	University Liggett
Place Code	Organization Name	Organization Description	
ST-H ASA	American Statistical Association (ASA), Michigan Chapte	Certificate of recognition for the use of statistical methods in the student's science fair project	
Daniel Dordevic with Sam	Hydro Phenix	David Egan	Larson Middle School
Place Code	Organization Name	Organization Description	
1 LEMEL	Lemelson Foundation	\$100 Cash award and a certificate to a young inventor in the Junior Division creating a promising solution to real-world problems.	
Dirui Zhang	A Research About a New Type of Indoor Gas Density Controller	Harry Fried	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
1S USNAVY	United States Navy	letter of congratulations; certificate of achievement; a medallion, and \$50 award gift card	
Divya Aggarwal	The Effect of Earmuffs to Reduce Noise Exposure on Heart Rate Variability	Rebecca Brewer	Troy High School
Place Code	Organization Name	Organization Description	

CertificateName	Title	Teacher	School	Organization Description
1	USAF	United States Air Force		Certificate, over-the-shoulder sling pack, power bank charger, dog tag USB flash memory drive, and a dual USB car charger.

Durrell Murray	Wash That Fire	Barbara Shaw	A. L. Holmes Elementary-Middle School	
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Place	Code	Organization Name	Organization Description
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1J	USNAVY	United States Navy	letter of congratulations; certificate of achievement; and a medallion
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Elise Norris	Rusting Out	William Tucker	Most Holy Trinity School	
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Place	Code	Organization Name	Organization Description
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1J	USNAVY	United States Navy	letter of congratulations; certificate of achievement; and a medallion
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Eric Liu	Development of a Low Cost Machine Learning Platform	Marcia Lizzio	Salem High School	
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Place	Code	Organization Name	Organization Description
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1	MUALPH	Mu Alpha Theta	Certificate
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1S	USNAVY	United States Navy	letter of congratulations; certificate of achievement; a medallion, and \$50 award gift card
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4	USPTO	U.S. Patent and Trademark Office	The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field
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Ethan Degner	The Marble Effect	Pamela Clark	Oakland Christian School-MS	
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Place	Code	Organization Name	Organization Description
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1J	USNAVY	United States Navy	letter of congratulations; certificate of achievement; and a medallion
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Eva Oleita with Kendall Fo	Prickly Pear Purifier	Felicia Benson	Cass Technical High School	
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Place	Code	Organization Name	Organization Description
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CertificateName	Title	Teacher	School
1 SIWI	Stockholm Junior Water Prize (Stockholm)		Certificate

Faith Brown with Ingrid R Diving into Watersheds

Tracy Ortiz Clippert Academy Middle School

Place	Code	Organization Name	Organization Description
2Jr	GLWA	Great Lakes Water Authority	Awards Luncheon and Tour of the Water Treatment process, \$50

Gabrielle Naserdean with Does Sleep Deprivation Affect Reaction Time?

John Dougherty Detroit Country Day Upper

Place	Code	Organization Name	Organization Description
1	APA	American Psychological Association	Certificate

Grace Endrud Agar and Filtration: A New Application for Biodegradable Materials

Marc Drougel Detroit Country Day Upper

Place	Code	Organization Name	Organization Description
1S	ASM	ASM - Detroit Chapter	Certificate of First Place, Senior Division

1	NASA	NASA Earth System Science	Certificate
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1	SIWI	Stockholm Junior Water Prize (Stockholm)	Certificate
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Hannah Rehman with Paig The Effect of Temperature on Filtration ability of Cellulose Acetate Membrane

Jamie Hilliard Macomb Mathematics Science Technology Center

Place	Code	Organization Name	Organization Description
1	SIWI	Stockholm Junior Water Prize (Stockholm)	Certificate

Hans Liu Infrared Sensing and Applications

Patricia Hanlan Detroit Country Day Upper

Place	Code	Organization Name	Organization Description
1	USMA	US Metric Association Award	Certificate

ST-1	USNAVY	United States Navy	letter of congratulations; certificate of achievement; a medallion; and \$75 award gift card
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CertificateName	Title	Teacher	School
Henna Haque	Inhibitory Effects of E-liquid Constituents on Various Bacteria: Determining P	Matthew Miller	MSEF-Saginaw Arts and Sciences
Place Code	Organization Name	Organization Description	
ST-1 NOAA	United States Department of Commerce Oceans and At	Certificate, Medallion, Letter of Congratulations	
Ian Zhu with Sahil Hanum	Does The Type of Activated Carbon Matter during the Filtration Process?	Riccardo Di Pasquo	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
1 SIWI	Stockholm Junior Water Prize (Stockholm)	Certificate	
Jakar Dhillon	A novel approach to environmental biosensors using a two-step genetic circuit	Dennis Kwasny	Bloomfield Hills High School
Place Code	Organization Name	Organization Description	
ST-1 ISEF	ISEF	ISEF Finalist to the 2019 International Science and Engineering Fair in Phoenix, AZ from May 12-17, 2019	
1 RICOH	Ricoh Corporation	Certificate, Science News Magazine - subscription, Senior winners eligible for \$50,000 competition	
1S USNAVY	United States Navy	letter of congratulations; certificate of achievement; a medallion, and \$50 award gift card	
Jessica Brown	Comparative Study Of City Water By Zipcodes	Helene Barton	Benjamin Carson School for Science/Medicine
Place Code	Organization Name	Organization Description	
1 SIWI	Stockholm Junior Water Prize (Stockholm)	Certificate	
Julia Griest with Kyra Pen	Acid Rain, Acid Rain, Go Away!	Tuyen Duddles	MMSTC-Middle School
Place Code	Organization Name	Organization Description	
1 AMS	American Meteorological Society	Certificate of Outstanding Achievement	

CertificateName	Title	Teacher	School
Julia Shen	Bidirectional Modulation of Compulsive Motor Behaviors in Mice by Stimulating	John Dougherty	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
1 NOAA	United States Department of Commerce Oceans and At	Certificate, Medallion, Letter of Congratulations	

Julie Jaipati with Roma Ba	Unconscious Bias	John Dougherty	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
1 APA	American Psychological Association	Certificate	

Katherine Pan	Developing and Adapting a Method for Leaf Area Imaging, Data Processing, and A	Marc Fazio	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
ST-2 ASA	American Statistical Association (ASA), Michigan Chapte	Scholarship of \$50 award of merit for the effective use of statistical methods in the science fair project plus a certificate	
1S USNAVY	United States Navy	letter of congratulations; certificate of achievement; a medallion, and \$50 award gift card	

Keinan Alaref	Increasing the Efficiency of Solar Panels	Falaknaz Ali	Michigan Islamic Academy MS
Place Code	Organization Name	Organization Description	
2 IEEE	IEEE Southeastern Michigan Section	Framed certificate	
1J USNAVY	United States Navy	letter of congratulations; certificate of achievement; and a medallion	

Kevin Zhou with Peizhi Liu	Utilizing Google Earth Engine to Retrieve the Devon Ice Cap's Equilibrium Line	Rebecca Brewer	Troy High School
Place Code	Organization Name	Organization Description	
ST-1 AMS	American Meteorological Society	Certificate of Outstanding Achievement	
1 INVITR	Society for In Vitro Biology	Certificate of Achievement	

CertificateName	Title	Teacher	School
1 ISEF	ISEF		ISEF Finalist to the 2019 International Science and Engineering Fair in Phoenix, AZ from May 12-17, 2019

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King Williams      The butterfly effect: the physics of flight

Krystal Bolar      Nolan Elementary-Middle School

Place	Code	Organization Name	Organization Description
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1J	USNAVY	United States Navy	letter of congratulations; certificate of achievement; and a medallion
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Kyla Jones      Xylem Filters to purify Water

Krystal Bolar      Nolan Elementary-Middle School

Place	Code	Organization Name	Organization Description
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1J	USNAVY	United States Navy	letter of congratulations; certificate of achievement; and a medallion
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Lauren Livernois with Eliza      Suburban Storm Drain Water Quality Analysis

Jamie Hilliard      Macomb Mathematics Science Technology Center

Place	Code	Organization Name	Organization Description
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3	AIRWAS	Air Waste Management Association	Certificate, awards dinner at annual banquet for a through analysis of a subject that has a potential environmental impact.
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1	AMS	American Meteorological Society	Certificate of Outstanding Achievement
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2Sr	GLWA	Great Lakes Water Authority	Awards Luncheon and Tour of the Water Treatment process, \$50
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Madeleine Yang      Enabling Influenza Virus-like Particles (VLPs) as a Universal Vaccine

Ross Arseneau      Detroit Country Day Upper

Place	Code	Organization Name	Organization Description
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ST-H	ASA	American Statistical Association (ASA), Michigan Chapter	Certificate of recognition for the use of statistical methods in the student's science fair project
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ST-1	ISEF	ISEF	ISEF Finalist to the 2019 International Science and Engineering Fair in Phoenix, AZ from May 12-17, 2019
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CertificateName	Title	Teacher	School
Maheen Haq with Shreya	Devising a Filter to Combat Tested Drinking Water Fountain Contaminants	Marc Drougel	Detroit Country Day Upper
Place	Code	Organization Name	Organization Description
3S	ASM	ASM - Detroit Chapter	Certificate of Third Place, Senior Division
3Sr	GLWA	Great Lakes Water Authority	Awards Luncheon and Tour of the Water Treatment process, \$25
1	SIWI	Stockholm Junior Water Prize (Stockholm)	Certificate
Malik Thornton	Alkali-silica reaction in concrete	Krystal Bolar	Nolan Elementary-Middle School
Place	Code	Organization Name	Organization Description
1J	ASM	ASM - Detroit Chapter	Certificate of First Place, Junior Division
Margaret Yang with Alyssa	Dual-precipitation Nano-structured Aluminum Alloy for Engine Applications	Stephanie Kokoszka	Cranbrook Kingswood Upper School
Place	Code	Organization Name	Organization Description
2S	ASM	ASM - Detroit Chapter	Certificate of Second Place, Senior Division
1	NOAA	United States Department of Commerce Oceans and At	Certificate, Medallion, Letter of Congratulations
ST-1	USAF	United States Air Force	Certificate, over-the-shoulder sling pack, power bank charger, dog tag USB flash memory drive, and a dual USB car charger.
4	USPTO	U.S. Patent and Trademark Office	The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field
Maria Cheriyan	Algorithm for Intelligent Prediction of Landslides based on Weather Conditions	Marc Drougel	Detroit Country Day Upper
Place	Code	Organization Name	Organization Description
1	AMS	American Meteorological Society	Certificate of Outstanding Achievement
1	AWG	Association of Women GeoScientists	Certificate
1	NOAA	United States Department of Commerce Oceans and At	Certificate, Medallion, Letter of Congratulations

CertificateName	Title	Teacher	School
Maria Fields	TNBC A Credible Window into A Biological Basis for Health Disparities per Race	Shernaz Minwalla	University Liggett
Place Code	Organization Name	Organization Description	
1 YALE	Yale Science & Engineering Association, Inc.	Certificate and Pewter Medallion	
Maria Khan with Salam Su	BioChar- The new Green	Falahnaz Ali	Michigan Islamic Academy-HS
Place Code	Organization Name	Organization Description	
1 NASA	NASA Earth System Science	Certificate	
Mariam Fateh	Visual vs. Auditory Stimuli on Memory	Talath Ansari	Crescent Academy International
Place Code	Organization Name	Organization Description	
1 USAF	United States Air Force	Certificate, over-the-shoulder sling pack, power bank charger, dog tag USB flash memory drive, and a dual USB car charger.	
Marinos Bernitsas	A Novel, Signal Analysis Approach to Diagnosis & Prevention of Heart Condition	Karin Nelson	Northville High School
Place Code	Organization Name	Organization Description	
1 MUALPH	Mu Alpha Theta	Certificate	
Mark Holowicki	CC Aerospace	Caitlin O'connell	Detroit Catholic Central High
Place Code	Organization Name	Organization Description	
1 USAF	United States Air Force	Certificate, over-the-shoulder sling pack, power bank charger, dog tag USB flash memory drive, and a dual USB car charger.	
Matthew Dong	SmartEats: A Mobile Application to Increase Food Access in Urban Communities	Rebecca Brewer	Troy High School
Place Code	Organization Name	Organization Description	

CertificateName	Title	Teacher	School	
1 SSP	Society for Science & the Public			Special \$500 cash award and a trophy for developing a project that will better humanity and improve conditions in the local community.
1S USNAVY	United States Navy			letter of congratulations; certificate of achievement; a medallion, and \$50 award gift card
1 YALE	Yale Science & Engineering Association, Inc.			Certificate and Pewter Medallion
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Matthew Mason	How Strong Are Plastic Wraps			
	Mary Dyer		University Prep Science & Math MS	
Place Code	Organization Name			Organization Description
3J ASM	ASM - Detroit Chapter			Certificate of Third Place, Junior Division
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Matthew Tan	Hardware Integrated LiDAR Simulation for Collision Avoidance Algorithms			
	Stephanie Kokoszka		Cranbrook Kingswood Upper School	
Place Code	Organization Name			Organization Description
1 IEEE	IEEE Southeastern Michigan Section			Framed certificate , \$100 Cash Award
ST-1 INTEL	Intel Corporation			\$200 Cash Award and an Intel Award Certificate
1 ISEF	ISEF			ISEF Finalist to the 2019 International Science and Engineering Fair in Phoenix, AZ from May 12-17, 2019
ST-1 USNAVY	United States Navy			letter of congratulations; certificate of achievement; a medallion; and \$75 award gift card
1 USPTO	U.S. Patent and Trademark Office			The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field
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Morgan Jones	De-icing without chemicals:Bio-Inspired Surfaces to Prevent Ice Formation			
	Krystal Bolar		Nolan Elementary-Middle School	
Place Code	Organization Name			Organization Description
1J USNAVY	United States Navy			letter of congratulations; certificate of achievement; and a medallion

CertificateName	Title	Teacher	School
Nathan Hadjiyski	Kidney Cancer Staging Using Deep Learning Neural Network	Steve Armstrong	Pioneer HS
Place Code	Organization Name	Organization Description	
4 USPTO	U.S. Patent and Trademark Office	The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field	

Neel Shah	Prediction of autoignition/flame properties for multicomponent fuels using ML	Patricia Hanlan	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
1 USAF	United States Air Force	Certificate, over-the-shoulder sling pack, power bank charger, dog tag USB flash memory drive, and a dual USB car charger.	

Neha Narayan	Graphene Sand Synthesis and Applications in Water Filtration and Desalination	Marcia Lizzio	Salem High School
Place Code	Organization Name	Organization Description	
ST-2 ASA	American Statistical Association (ASA), Michigan Chapter	Scholarship of \$50 award of merit for the effective use of statistical methods in the science fair project plus a certificate	
1 EMA	Environmental Management Association	\$1,000 scholarship award plus invite to attend the Environmental Achievement Awards ceremony of April 18, 2019 at the Detroit Athletic Club with one guest where they will receive their awards.	
1Sr GLWA	Great Lakes Water Authority	Awards Luncheon and Tour of the Water Treatment process, \$100	
1 ISEF	ISEF	ISEF Finalist to the 2019 International Science and Engineering Fair in Phoenix, AZ from May 12-17, 2019	
1 NASA	NASA Earth System Science	Certificate	
ST-1 SIWI	Stockholm Junior Water Prize (Stockholm)	Certificate	

Nehaar Nimmagadda	Customizable adventitia vessels using 3D printed inserts and ring stacking	Laura Luckins	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	

CertificateName	Title	Teacher	School	
ST-1 USMA	US Metric Association Award			Certificate
2 USPTO	U.S. Patent and Trademark Office			The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field
4 USPTO	U.S. Patent and Trademark Office			The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field
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Nicklaus Sicilia with Erin	Electroencephalographic Analysis of Moral Decision Making in Adolescents	John Dougherty	Detroit Country Day Upper	
Place Code	Organization Name			Organization Description
ST-H ASA	American Statistical Association (ASA), Michigan Chapte			Certificate of recognition for the use of statistical methods in the student's science fair project
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Nina Khaghany	Bioplastic Bag	Marc Drougel	Detroit Country Day Upper	
Place Code	Organization Name			Organization Description
1 INVITR	Society for In Vitro Biology			Certificate of Achievement
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Noor Nashashibi with Ran	Ready Yet?!	Samah Tout	Michigan Islamic Academy-HS	
Place Code	Organization Name			Organization Description
ST-H ASA	American Statistical Association (ASA), Michigan Chapte			Certificate of recognition for the use of statistical methods in the student's science fair project
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Oliver Yu with Eric Ma	Project Pufferfish	Stephen Tighe	Lake Orion High School	
Place Code	Organization Name			Organization Description
3 USPTO	U.S. Patent and Trademark Office			The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field



CertificateName	Title	Teacher	School
Paul Havern with Reis Cia	Effect of Varying Currents on the Magnetic Field and Magnetite Removal	Greg Mcmillan	Macomb Mathematics Science Technology Center
Place Code	Organization Name	Organization Description	
ST-2 ASA	American Statistical Association (ASA), Michigan Chapter	Scholarship of \$50 award of merit for the effective use of statistical methods in the science fair project plus a certificate	
ST-1 SIWI	Stockholm Junior Water Prize (Stockholm)	Certificate	
Phillip Soria	Ice Ice Baby	Julie Ader	John Paul II Catholic School
Place Code	Organization Name	Organization Description	
2J ASHRAE	American Society of Heating, Refrigeration and Air Conditioning	Second place Award in Junior Division, Certificate, book and invitation to present @ meeting	
Pooja Kannappan	Detecting Metastatic Cancer in Digital Pathology Scans Using Machine Learning	Dennis Kwasny	Bloomfield Hills High School
Place Code	Organization Name	Organization Description	
1RO INTEL	Intel Corporation	\$200 Cash Award and an Intel Award Certificate. Top project in Robotics	
Pranav Arunandhi	Steiner k-Diameter of Tensor Products	Megan Phillips	International Academy
Place Code	Organization Name	Organization Description	
1S USNAVY	United States Navy	letter of congratulations; certificate of achievement; a medallion, and \$50 award gift card	
Pratham Soni	DTS-DVC Analysis of In Situ Vertebral Displacements under Physiological Loads	Rebecca Brewer	Troy High School
Place Code	Organization Name	Organization Description	
1 USMA	US Metric Association Award	Certificate	
1S USNAVY	United States Navy	letter of congratulations; certificate of achievement; a medallion, and \$50 award gift card	

CertificateName	Title	Teacher	School
Racheet Shah with Amogh	Fuel Cell- Day After Tomorrow	Taylor Morgan	Novi Middle School
Place Code	Organization Name	Organization Description	
4 USPTO	U.S. Patent and Trademark Office	The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field	
Ramsha Saleem	Experimenting With Microbial Degradation Of Petroleum	Lina Hashem	Michigan Islamic Academy-HS
Place Code	Organization Name	Organization Description	
1 AWG	Association of Women GeoScientists	Certificate	
1 RICOH	Ricoh Corporation	Certificate, Science News Magazine - subscription, Senior winners eligible for \$50,000 competition	
Rebecca Murray	Creating Insulative Concrete From Mainstream Waste	Michael Motzny	International Tech Academy
Place Code	Organization Name	Organization Description	
2 AIRWAS	Air Waste Management Association	\$200, Certificate, awards dinner at annual banquet for the project demonstrating an innovative approach to the studying of problem related to the management of an environmental challenge.	
1S ASHRAE	Americian Society of Heating, Refrigeration and Air Con	Outstanding First Place Award in Senior Division, Certificate, book and invitation to present @ meeting	
ST-1 ASM-IN	ASM Materials Education Foundation	Certificate	
Rija Bari	Measuring air quality indoors and utilizing natural methods to improve the air	Falaknaz Ali	Michigan Islamic Academy MS
Place Code	Organization Name	Organization Description	
H ASHRAE	Americian Society of Heating, Refrigeration and Air Con	Honorable Mention Award, Certificate, book and invitation to present @ meeting	

CertificateName	Title	Teacher	School
Riya Dutta with Deepti Ag	Role of Environmental Conditions on Drying of Paint	Christine Bonnell	Smith Middle School
Place Code	Organization Name	Organization Description	
1J ASHRAE	Americian Society of Heating, Refrigeration and Air Con	Outstanding First Place Award in Junior Division, Certificate, book and invitation to present @ meeting	
Rochelle Ambrose	Measuring The Effect of Earthworms vs Chemical Fertilizer on Grass Growth	Hallie. Jones	East English Village Preparatory Academy
Place Code	Organization Name	Organization Description	
3 EMA	Environmental Management Association	\$250 scholarship award plus invite to attend the Environmental Achievement Awards ceremony of April 18, 2019 at the Detroit Athletic Club with one guest where they will receive their awards.	
1 RICOH	Ricoh Corporation	Certificate, Science News Magazine - subscription, Senior winners eligible for \$50,000 competition	
Ruby Srock	PFAS Presence in the Huron River Watershed	David Egan	Larson Middle School
Place Code	Organization Name	Organization Description	
1Jr GLWA	Great Lakes Water Authority	Awards Luncheon and Tour of the Water Treatment process, \$100	
Ruhi Nayak	The Synthesis of a Biodegradable Dermal Covering for Burn Victims	Laura Luckins	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
ST-H ASA	American Statistical Association (ASA), Michigan Chapte	Certificate of recognition for the use of statistical methods in the student's science fair project	
Sahil Suneja	Nonlinear Resonance and Response	Harry Fried	Detroit Country Day Upper
Place Code	Organization Name	Organization Description	
ST-1 MUALPH	Mu Alpha Theta	Certificate	

CertificateName	Title	Teacher	School
Salena Prakah-asante	Increasing Soil Fertility via Carbon Sequestration with Slow Release Biochars	Stephanie Kokoszka	Cranbrook Kingswood Upper School
Place Code	Organization Name	Organization Description	
ST-1 ASA	American Statistical Association (ASA), Michigan Chapter	Scholarship of \$200 award of excellence for outstanding use of statistical methods in the science fair project plus a certificate	
2	EMA	Environmental Management Association	\$500 scholarship award plus invite to attend the Environmental Achievement Awards ceremony of April 18, 2019 at the Detroit Athletic Club with one guest where they will receive their awards.
4	USPTO	U.S. Patent and Trademark Office	The USPTO provides a professional award based on the scope of the problem identified by the students and whether the solution was an innovative approach in the given field
Sally Kim	Do our Devices Listen to Us?	Abeer Afana	Boulan Park Middle School
Place Code	Organization Name	Organization Description	
2	IEEE	IEEE Southeastern Michigan Section	Framed certificate
Sarah Busen	Evaluation of Asphalt Effect On Water Quality	Maureen Wickenheiser	St. Patrick Elementary-Carleton, MI
Place Code	Organization Name	Organization Description	
3Jr	GLWA	Great Lakes Water Authority	Awards Luncheon and Tour of the Water Treatment process, \$25
Shriya Reddy	Noninvasive Diagnosis of Melanoma Using OCT and Bioconjugated Gold Nanospheres	Karin Nelson	Northville High School
Place Code	Organization Name	Organization Description	
ST-2	ASA	American Statistical Association (ASA), Michigan Chapter	Scholarship of \$50 award of merit for the effective use of statistical methods in the science fair project plus a certificate
1	ISEF	ISEF	ISEF Finalist to the 2019 International Science and Engineering Fair in Phoenix, AZ from May 12-17, 2019

CertificateName	Title	Teacher	School
Syeda Islam	The effect of caffeine on plant growth	Helene Barton	Benjamin Carson School for Science/Medicine
Place Code	Organization Name	Organization Description	
ST-H ASA	American Statistical Association (ASA), Michigan Chapt	Certificate of recognition for the use of statistical methods in the student's science fair project	
Terrence Evans	Heavy Metals in Michigan Rivers	George Goff	Henry Ford High School
Place Code	Organization Name	Organization Description	
1 SIWI	Stockholm Junior Water Prize (Stockholm)	Certificate	
1S USNAVY	United States Navy	letter of congratulations; certificate of achievement; a medallion, and \$50 award gift card	
Vihaar Nandigala	Novel Metrics For Optimal Allocation of Charitable Resources	Laura Jennings	Walled Lake Western High
Place Code	Organization Name	Organization Description	
1 APA	American Psychological Association	Certificate	
ST-H ASA	American Statistical Association (ASA), Michigan Chapt	Certificate of recognition for the use of statistical methods in the student's science fair project	
1 ISEF	ISEF	ISEF Finalist to the 2019 International Science and Engineering Fair in Phoenix, AZ from May 12-17, 2019	
Waliullah Ahmed	The Airbags Of The Sky	Talath Ansari	Crescent Academy International
Place Code	Organization Name	Organization Description	
1 USAF	United States Air Force	Certificate, over-the-shoulder sling pack, power bank charger, dog tag USB flash memory drive, and a dual USB car charger.	
1J USNAVY	United States Navy	letter of congratulations; certificate of achievement; and a medallion	

CertificateName	Title	Teacher	School
Wolf Busch	Containing Oil spills	Wendy Jerome	The Grosse Pointe Academy
Place Code	Organization Name	Organization Description	
1J USNAVY	United States Navy	letter of congratulations; certificate of achievement; and a medallion	
Yang Chen	Active Learning over DNN: Automated Engineering Design Optimization for Fluid	Stephanie Kokoszka	Cranbrook Kingswood Upper School
Place Code	Organization Name	Organization Description	
ST-2 ASA	American Statistical Association (ASA), Michigan Chapt	Scholarship of \$50 award of merit for the effective use of statistical methods in the science fair project plus a certificate	
1	IEEE	IEEE Southeastern Michigan Section	Framed certificate , \$100 Cash Award
1	MUALPH	Mu Alpha Theta	Certificate