

Fort Worth Regional Science Fair

Winners Directory

Award: **Animal Sciences**

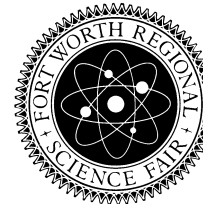
First Place: Lindy Lyda	Division: J	08368
Project: Buffed up Blaptica		
School E.A. YOUNG ACADEMY MS	Advisor Carol Raymond	

Second Place: Blake Pope	Division: J	70001
Project: Predicting Range Based on Body Size of Scelopones Divaceus		
School SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor Brandon Pope	
Second Place: Tandav Argula	Division: J	70001
Project: Predicting Range Based on Body Size of Scelopones Divaceus		
School SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor Brandon Pope	

Third Place: Alex Branch	Division: J	34168
Project: A Study of the pH of Worm Castings from Two Different Bedding Types Printed Newsprint and Unprinted Newsprint		
School APPLIED LEARNING ACADEMY	Advisor Denise Gordon	

Honorable Mention: Addison Hudelson	Division: J	09929
Project: Which Chick?		
School LIBERTY CHRISTIAN SCHOOL	Advisor Colleen Searcy	

Honorable Mention: Audrey Horn	Division: J	08474
Project: Weather Bees		
School E.A. YOUNG ACADEMY MS	Advisor Evan Fuchs	



Fort Worth Regional Science Fair

Winners Directory

Award: **Behavior and Social Sciences**

First Place: Samiha Mahmud

Division: **J**

52693

Project: **Are Two Ears Better Than One? Binaural Vs. Monaural Sound Localization**

School **HARMONY SCIENCE ACADEMY MIDDLE SC**

Advisor **Sandi Parsons**

Second Place: Kyla Asante-wiredu

Division: **J**

24174

Project: **Rosemary Resolution**

School **GRANBURY MIDDLE SCHOOL**

Advisor **Andrea Lynch**

Third Place: Riley Turner

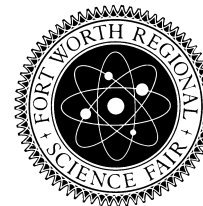
Division: **J**

08440

Project: **Manga Momentum II**

School **E.A. YOUNG ACADEMY MS**

Advisor **Carol Raymond**



Fort Worth Regional Science Fair

Winners Directory

Award: **Biochemistry**

First Place: Grace Terrell

Division: **J**

49139

Project: **Computational Exploration of Protein Function**

School **HOLY FAMILY CATHOLIC MIDDLE SCHOOL**

Advisor **Tara Carleo**

Second Place: Harry Black

Division: **J**

50647

Project: **Fresh Versus Factory**

School **ST. JOSEPH CATHOLIC SCHOOL IN ARLING**

Advisor

Third Place: Emma Allen

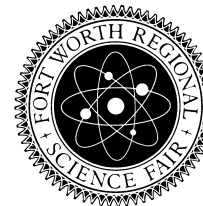
Division: **J**

48845

Project: **How Does Caffeine Affect Heart Rate?**

School **HARMONY SCHOOL OF INNOVATION MIDD**

Advisor **Bilal Yildirim**



Fort Worth Regional Science Fair

Winners Directory

Award: **Chemistry**

First Place: Thu Pham

Division: **J**

44197

Project: **The Heating Power of Common Household Fuels**

School **MCLEAN MIDDLE SCHOOL**

Advisor **Megan Ngo**

Second Place: Jody Sonderer

Division: **J**

23730

Project: **Fruit Circuit**

School **ACTON MIDDLE SCHOOL**

Advisor **Scott Carpenter**

Third Place: Rylie Doran

Division: **J**

50599

Project: **Swipe Out The Shine**

School **NORTH JOSHUA ELEMENTARY**

Advisor **Jonathan Sharp**

Third Place: Amilia Wiley

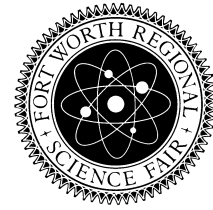
Division: **J**

50599

Project: **Swipe Out The Shine**

School **NORTH JOSHUA ELEMENTARY**

Advisor **Jonathan Sharp**



Fort Worth Regional Science Fair

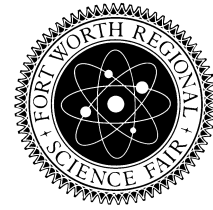
Winners Directory

Award: **Computer Science**

First Place: Allison Geddie	Division: J	50261
Project: Hit Me With Your Best Shot		
School NORTH JOSHUA ELEMENTARY	Advisor Jonathan Sharp	

Second Place: Nikhil Thomas	Division: J	48125
Project: Bomb Detecting Robot		
School HARMONY SCHOOL OF INNOVATION MIDD	Advisor Camille Booth	

Third Place: Chance Wright	Division: J	10127
Project: The Internet Is Down		
School LIBERTY CHRISTIAN SCHOOL	Advisor Aaron Mouser	



Fort Worth Regional Science Fair

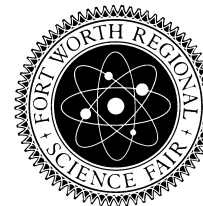
Winners Directory

Award: **Earth and Planetary Science**

First Place: Kaitlyn Atwood	Division: J	24063
Project: The Richter Scale Measuring Does the height at which an earthquake is measured matter?		
School ACTON MIDDLE SCHOOL	Advisor Scott Carpenter	

Second Place: Isabel Hopkins	Division: J	08537
Project: Humidity in the Air		
School LIBERTY CHRISTIAN SCHOOL	Advisor Colleen Searcy	

Third Place: Nathan Connor	Division: J	53937
Project: Phases of the Moon		
School PLUM CREEK ELEMENTARY	Advisor Therese Ashworth	



Fort Worth Regional Science Fair

Winners Directory

Award: **Electrical & Mechanical**

First Place: Adam Stone

Division: **J**

24069

Project: **Invisible Aircraft**

School **ACTON MIDDLE SCHOOL**

Advisor **Scott Carpenter**

Second Place: Thomas Holt

Division: **J**

50236

Project: **Rocket Joules An Analysis of How Payload Weight Effects Rocket Performance**

School **HARMONY SCHOOL OF INNOVATION MIDD**

Advisor **Bilal Yildirim**

Third Place: Abel Philip

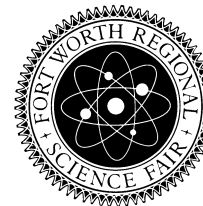
Division: **J**

52750

Project: **How does temperature affect conductivity and resistance of copper?**

School **HARMONY SCIENCE ACADEMY MIDDLE SC**

Advisor **Sandi Parsons**



Fort Worth Regional Science Fair

Winners Directory

Award: **Energy & Transportation**

First Place: Elizabeth Proctor

Division: **J**

52554

Project: **How to harvest the power of the sun to cook food and how it compares to conventional cooking methods.**

School **ST. MARIA GORETTI SCHOOL**

Advisor **Gary Spaulding**

Second Place: Ryan Allison

Division: **J**

08533

Project: **Maximum Efficiency**

School **LIBERTY CHRISTIAN SCHOOL**

Advisor **Colleen Searcy**

Third Place: Rebecca Fripp

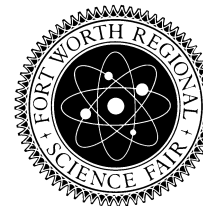
Division: **J**

50570

Project: **Power To The People Designing A Gravity Light**

School **HARMONY SCHOOL OF INNOVATION MIDD**

Advisor **Manisha Singh**



Fort Worth Regional Science Fair

Winners Directory

Award: **Environmental Science**

First Place: Kafi Campbell

Division: **J**

48395

Project: **The Allelopathic Effects of Juglens Nigra on Wild and Garden Plant Species**

School **HARMONY SCHOOL OF INNOVATION MIDD**

Advisor **Sarah Nickolson-Kemper**

Second Place: Isabella Solis

Division: **J**

49590

Project: **indoor vs outdoor air quality**

School **HARMONY SCHOOL OF INNOVATION MIDD**

Advisor **Yavuz Ceylan**

Third Place: Tyler Stone

Division: **J**

50324

Project: **Ice Ice Baby**

School **NORTH JOSHUA ELEMENTARY**

Advisor **Jonathan Sharp**

Third Place: Blaine Marek

Division: **J**

50324

Project: **Ice Ice Baby**

School **NORTH JOSHUA ELEMENTARY**

Advisor **Jonathan Sharp**

Third Place: Brandon Ayars

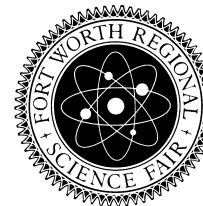
Division: **J**

50324

Project: **Ice Ice Baby**

School **NORTH JOSHUA ELEMENTARY**

Advisor **Jonathan Sharp**



Fort Worth Regional Science Fair

Winners Directory

Award: **Materials & Bioengineering**

First Place: Jude Dino

Division: **J**

48719

Project: **Cleaning Oil Spills with Nanotechnology**

School **HARMONY SCHOOL OF INNOVATION MIDD**

Advisor **Bilal Yildirim**

Second Place: Austin Hunt

Division: **J**

12986

Project: **Made in the Shade**

School **LIBERTY CHRISTIAN SCHOOL**

Advisor **Aaron Mouser**

Third Place: David Castro

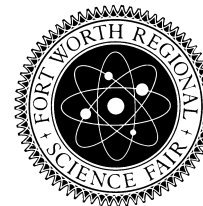
Division: **J**

52261

Project: **Hot or Cold. The Effectsof Temperature on Battery Life.**

School **ST. PETER THE APOSTLE MIDDLE SCHOOL**

Advisor **Lisa Giardino**



Fort Worth Regional Science Fair

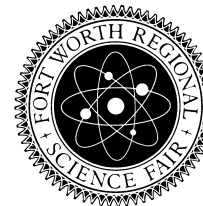
Winners Directory

Award: **Mathematical Sciences**

First Place: Tausiful Hoque	Division: J	52734
Project: Measuring Craters on Mercury		
School HARMONY SCIENCE ACADEMY MIDDLE SC	Advisor Fatih Ilhan	

Second Place: Luke Wagner	Division: J	52723
Project: The Better Deal		
School ST. MARIA GORETTI SCHOOL	Advisor Gary Spaulding	

Third Place: Yusufu Uwintwari	Division: J	53250
Project: VORTEX CANNON		
School HARMONY SCIENCE ACADEMY MIDDLE SC	Advisor Sandi Parsons	
Third Place: Abraham Al-Tayyeb	Division: J	53250
Project: VORTEX CANNON		
School HARMONY SCIENCE ACADEMY MIDDLE SC	Advisor Sandi Parsons	



Fort Worth Regional Science Fair

Winners Directory

Award: **Medicine and Health Sciences**

First Place: Alyssa Tembrock

Division: **J**

50389

Project: **The Unsuspected Price Tag of Beauty Are Personal Care Products Safe?**

School **ST. MARIA GORETTI SCHOOL**

Advisor **Gary Spaulding**

Second Place: Alyssa-Skye Moreno

Division: **J**

47956

Project: **Herbal Remedy Vs. Antibiotic**

School **HARMONY SCHOOL OF INNOVATION MIDD**

Advisor **Nicole Turner**

Third Place: Ann Segis

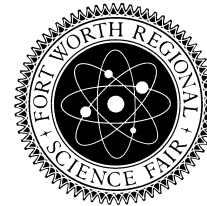
Division: **J**

00490

Project: **Comparative Analysis of Organic vs Conventional foods**

School **ST. ELIZABETH ANN SETON CATHOLIC MID**

Advisor **Katherine Arnold**



Fort Worth Regional Science Fair

Winners Directory

Award: **Microbiology**

First Place: Arnold Langat Division: **J** **24753**

Project: **Determining the Effect of DNA Concentration on Transformation Efficiency**

School **HARMONY SCIENCE ACADEMY MIDDLE SC**

Advisor **Sandi Parsons**

Second Place: Mohammad Amassyali

Division: **J** **26224**

Project: **Nano Antibiotics**

School **HARMONY SCIENCE ACADEMY MIDDLE SC**

Advisor **Sandi Parsons**

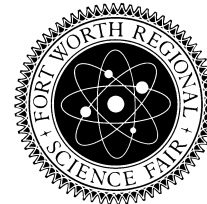
Third Place: Michelle Hagenimana

Division: **J** **50676**

Project: **Disinfectants**

School **HARMONY SCHOOL OF INNOVATION MIDD**

Advisor **Bunyamin Bogush**

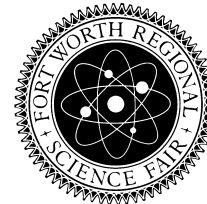


Fort Worth Regional Science Fair

Winners Directory

Award: **Physics & Astronomy**

First Place: Shane West	Division: J	53085
Project: STARS THE 1st GPS The Science of Sextant Navigation		
School HARMONY SCIENCE ACADEMY MIDDLE SC	Advisor Fatih Ilhan	
Second Place: Parker Horn	Division: J	08362
Project: Quantum Clouds		
School E.A. YOUNG ACADEMY MS	Advisor Evan Fuchs	
Second Place: Tyler Young	Division: J	08362
Project: Quantum Clouds		
School E.A. YOUNG ACADEMY MS	Advisor Evan Fuchs	
Third Place: Amethyst Penrice	Division: J	52684
Project: NaCl H2O Fuel		
School HARMONY SCIENCE ACADEMY MIDDLE SC	Advisor Fatih Ilhan	



Fort Worth Regional Science Fair

Winners Directory

Award: **Plant Sciences**

First Place: Elisa McRae

Division: **J**

49295

Project: **Fresh Flowers**

School **HARMONY SCHOOL OF INNOVATION MIDD**

Advisor **Yavuz Ceylan**

Second Place: Kendall Jones

Division: **J**

09874

Project: **Just keep Growing**

School **LIBERTY CHRISTIAN SCHOOL**

Advisor **Colleen Searcy**

Third Place: Lauren Marcelino

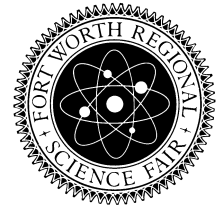
Division: **J**

47975

Project: **Germination Boost**

School **HARMONY SCHOOL OF INNOVATION MIDD**

Advisor **Sarah Nickolson-Kemper**

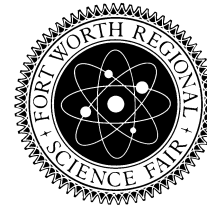


Fort Worth Regional Science Fair

Winners Directory

Award: **Animal Sciences**

Third Place: Kyle Bickle	Division: S	Category: All Categories	50946
Project: Mosquito Magnitism			
School NORTHSTAR HIGH SCHOOL		Advisor Kimberly Desrosiers	
Second Place: Kasey Jones	Division: S	Category: All Categories	52447
Project: Betta aggression			
School EVERMAN HIGH SCHOOL		Advisor Courtney McClendon	
First Place: Kristal Gamez	Division: S	Category: All Categories	21882
Project: Can Crushed Peas Cure Swim Bladders Disease?			
School SUMMIT INTERNATIONAL HIGH SCHOOL		Advisor Christina Krone	
First Place: Eliana Dimas	Division: S	Category: All Categories	21882
Project: Can Crushed Peas Cure Swim Bladders Disease?			
School SUMMIT INTERNATIONAL HIGH SCHOOL		Advisor Christina Krone	
First Place: Alejandra Romero	Division: S	Category: All Categories	21882
Project: Can Crushed Peas Cure Swim Bladders Disease?			
School SUMMIT INTERNATIONAL HIGH SCHOOL		Advisor Christina Krone	



Fort Worth Regional Science Fair

Winners Directory

Award: **Behavioral & Social Sciences**

First Place: Avery Lyda

Division: S

08911

Project: **Teens and Morally Interpretive Situations in a Group Setting**

School **E.A. YOUNG ACADEMY HS**

Advisor **Carol Raymond**

Second Place: Annika Rosales

Division: S

08923

Project: **Music and Education A study of the effects of music on student accuracy and productivity.**

School **E.A. YOUNG ACADEMY HS**

Advisor **Carol Raymond**

Third Place: Elyssa Pfluger

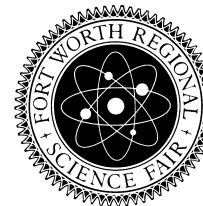
Division: S

08912

Project: **A subject matters effect on ones handwriting.**

School **E.A. YOUNG ACADEMY HS**

Advisor **Carol Raymond**



Fort Worth Regional Science Fair

Winners Directory

Award: **Biochemistry**

First Place: Laura Pang Division: S 39553
 Project: **Investigating Thrombogenic Properties of Various Polymer Surfaces through Fibrinogen Fiber Formation and Platelet Preferential Binding and Activation**

School TEXAS ACADEMY OF MATHEMATICS AND S Advisor Lucy Cai

First Place: Scarlett Guo Division: S 39553

Project: **Investigating Thrombogenic Properties of Various Polymer Surfaces through Fibrinogen Fiber Formation and Platelet Preferential Binding and Activation**

School TEXAS ACADEMY OF MATHEMATICS AND S Advisor Lucy Cai

Second Place: Sumedha Mehta Division: S 30267

Project: **A Novel Methodology to Mimic Biological Properties using Ionic Liquids An Extensive in silico Study**

School TEXAS ACADEMY OF MATHEMATICS AND S Advisor Lucy Cai

Second Place: Napasorn Kuprasertkul Division: S 30267

Project: **A Novel Methodology to Mimic Biological Properties using Ionic Liquids An Extensive in silico Study**

School TEXAS ACADEMY OF MATHEMATICS AND S Advisor Lucy Cai

Second Place: Akash Wadawadigi Division: S 30267

Project: **A Novel Methodology to Mimic Biological Properties using Ionic Liquids An Extensive in silico Study**

School TEXAS ACADEMY OF MATHEMATICS AND S Advisor Lucy Cai

Third Place: Akshay Singh Division: S 30278

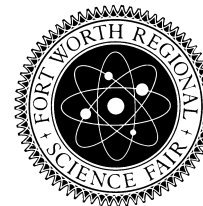
Project: **Development of Novel 17Residue Polypeptides to Mitigate the Effects of Familial Hypertrophic Cardiomyopathy**

School TEXAS ACADEMY OF MATHEMATICS AND S Advisor Lucy Cai

Third Place: Anish Reddy Division: S 30278

Project: **Development of Novel 17Residue Polypeptides to Mitigate the Effects of Familial Hypertrophic Cardiomyopathy**

School TEXAS ACADEMY OF MATHEMATICS AND S Advisor Lucy Cai



Fort Worth Regional Science Fair

Winners Directory

Award: **Chemistry**

First Place: Janneke De Boer

Division: S

53352

Project: **What Will Keep Our Troops Safer? Which Fabric Is More Effective at Resisting Bullet Shot Penetration at Close Range Warfare European K29 745 Kevlar or American KM2 Plus 705?**

School **CHRISTIAN COTTAGE PREP HIGH SCHOOL**

Advisor **Teri Willis**

Second Place: Jisoo Min

Division: S

35487

Project: **Preparation of Novel Nano Theranostic Agent Synthesis of Bacteriophage Qbeta Coat Protein Gold Nanoparticle and Polycysteine for Cancer Detection and Treatment**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Lucy Cai**

Third Place: Rachel Brown

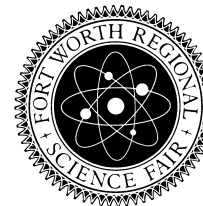
Division: S

08914

Project: **The Effects of Bleached and Unbleached Flour on Cut Cookies**

School **E.A. YOUNG ACADEMY HS**

Advisor **Carol Raymond**



Fort Worth Regional Science Fair

Winners Directory

Award: **Computer Science**

First Place: Danny Siu

Division: S

47963

Project: **Using a Spell Corrector and Pattern Search Engine to Make Passwords Less Prone to Dictionary Attacks.**

School **MIRABEAU B. LAMAR HIGH SCHOOL**

Advisor **Bhupinder Mangat**

Second Place: Kamran Khan

Division: S

53426

Project: **Which Sensor Performs with the Greatest Efficacy ev3 Ultrasonic or ev3 Infrared Which Sensor Will Be Able to Detect Obstacles with the Least Repelled Incidents and the Most Completed Exit Amount through an Obstacle Course?**

School **CHRISTIAN COTTAGE PREP HIGH SCHOOL**

Advisor **Teri Willis**

Third Place: Brandon Truong

Division: S

54978

Project: **Making Sense of Social Networking Data During Disaster Through Bayesian Natural Language Processing**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Lucy Cai**

Third Place: Estella Xin

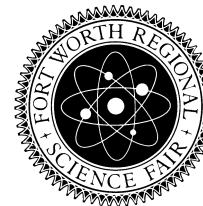
Division: S

54978

Project: **Making Sense of Social Networking Data During Disaster Through Bayesian Natural Language Processing**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Lucy Cai**



Fort Worth Regional Science Fair

Winners Directory

Award: **Earth & Planetary Science**

First Place: Simon Meek

Division: S

21815

Project: **Do Rocks Break Differently During Stress?**

School **LIBERTY CHRISTIAN HIGH SCHOOL**

Advisor **Kari Norheim**

Second Place: Dylan Vong

Division: S

52470

Project: **Stronger Hurricanes**

School **EVERMAN HIGH SCHOOL**

Advisor **Courtney McClendon**

Third Place: Trenadey Scott

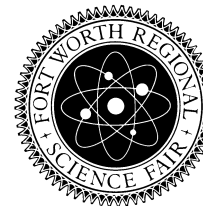
Division: S

52838

Project: **Light Speed**

School **EVERMAN HIGH SCHOOL**

Advisor **Larry Ritchie**



Fort Worth Regional Science Fair

Winners Directory

Award: **Electrical & Mechanical**

First Place: Christopher Shen

Division: S

42560

Project: **Electrowetting Controlled Dual Liquid Prism for Adaptive Beam Steering**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Lucy Cai**

Second Place: Nathan Fripp

Division: S

43382

Project: **Designing Radial Magnetic Gears**

School **HARMONY SCHOOL OF INNOVATION HIGH**

Advisor **Manisha Singh**

Third Place: Michael Rezsofi

Division: S

18602

Project: **Spring Efficiency in Relation to Temperature**

School **GRANBURY HIGH SCHOOL**

Advisor **Janel Morris**

Third Place: Hayden Copenbarger

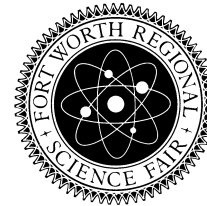
Division: S

18602

Project: **Spring Efficiency in Relation to Temperature**

School **GRANBURY HIGH SCHOOL**

Advisor **Janel Morris**



Fort Worth Regional Science Fair

Winners Directory

Award: **Energy & Transportation**

First Place: Collin McCollum

Division: S

52397

Project: **Want A Lift? Plane or Frozen Wings**

School **EVERMAN HIGH SCHOOL**

Advisor **Larry Ritchie**

Second Place: Monica Bustos

Division: S

52483

Project: **Icy Hot Energy**

School **EVERMAN HIGH SCHOOL**

Advisor **Courtney McClendon**

Third Place: Angelica Hernandez

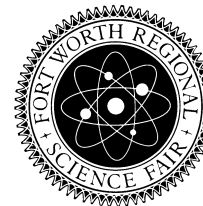
Division: S

52365

Project: **Ethanol Extraction**

School **EVERMAN HIGH SCHOOL**

Advisor **Larry Ritchie**



Fort Worth Regional Science Fair

Winners Directory

Award: Environmental Science

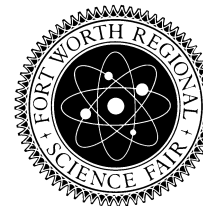
First Place: Raashi Thakkar	Division: S	42354
Project: Water You Drinking? Using Nanotechnology and Porous Materials to Remove Bacteria and Heavy Metals from Polluted Water		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Lucy Cai	

Second Place: YingYan Ho	Division: S	43262
Project: Flocculants amp Filtration A Study of the Effectiveness of Chitosan on Water Quality		
School: TEXAS ACADEMY OF MATHEMATICS AND S	Advisor: Lucy Cai	

Third Place: Victoria Covarrubias	Division: S	21854
Project: The Effects of BPA on Drososphila melanogaster		
School: SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor: Chris Bruhn	

Third Place: Valeria Escobar	Division: S	21854
Project: The Effects of BPA on Drososphila melanogaster		
School: SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor: Chris Bruhn	

Third Place: Jose Alcalá	Division: S	21854
Project: The Effects of BPA on Drososphila melanogaster		
School: SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor: Chris Bruhn	



Fort Worth Regional Science Fair

Winners Directory

Award: **Materials & Bioengineering**

Honorable Mention: Tony Liu Division: S 34360

Project: **From Geckos to Futuristic Adhesive Devices An experimental and simulations approach**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Lucy Cai**

First Place: Akilesh Babu Division: S 32659

Project: **Novel Method to Create Lighter and Stronger Porous Materials using Nanorod Reinforcements**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Lucy Cai**

Second Place: Lillian Zha Division: S 37358

Project: **To Perfect the Lotus Effect**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Lucy Cai**

Second Place: Helena Wu Division: S 37358

Project: **To Perfect the Lotus Effect**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Lucy Cai**

Third Place: Elise Cai Division: S 34579

Project: **Developing an IntraAortic Stent Powered by Artificial Muscle for Aortic Stenosis Treatment**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

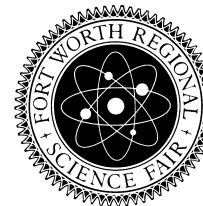
Advisor **Lucy Cai**

Third Place: Michelle Liu Division: S 34579

Project: **Developing an IntraAortic Stent Powered by Artificial Muscle for Aortic Stenosis Treatment**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Lucy Cai**



Fort Worth Regional Science Fair

Winners Directory

Award: **Mathematical Sciences**

First Place: Niranjan Balachandar

Division: S

43517

Project: **A Novel Statistical Approach for Computational Drug Design to Target Intrinsically Disordered Proteins**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

Advisor **Lucy Cai**

Second Place: Krithika Iyer

Division: S

48700

Project: **Boolean Algebra A Framework for the Analysis of Gene Mutations**

School **ISCHOOL STEM OF LEWISVILLE**

Advisor

Third Place: G\Angela Pickett

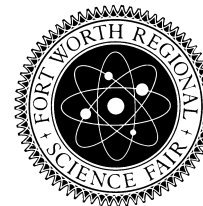
Division: S

24943

Project: **Olympic Aim**

School **CROSSLAND NINTH GRADE CENTER**

Advisor **Kayli Morris**



Fort Worth Regional Science Fair

Winners Directory

Award: **Medicine & Health Sciences**

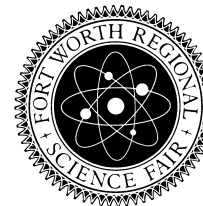
First Place: Vasu Mahapatra	Division: S	42623
Project: Vision Restoration Through Optogenetics Evaluating the PhotoResponse of White Opsin		
School CARROLL HIGH SCHOOL	Advisor P.j. Giamanco	

Second Place: Franklin Zhang	Division: S	44590
Project: Reactive Astrogliosis and Regulation of G ProteinCoupled Receptors in Seizures		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Lucy Cai	

Second Place: Sachit Menon	Division: S	44590
Project: Reactive Astrogliosis and Regulation of G ProteinCoupled Receptors in Seizures		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Lucy Cai	

Third Place: Yashas Manjunatha	Division: S	34308
Project: Saying NO to Cancer Using a Nitric Oxide Probe Based Phone App as an Inexpensive Noninvasive Diagnostic for Early Cancer Detection		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Lucy Cai	

Third Place: Anagha Krishnan	Division: S	34308
Project: Saying NO to Cancer Using a Nitric Oxide Probe Based Phone App as an Inexpensive Noninvasive Diagnostic for Early Cancer Detection		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Lucy Cai	



Fort Worth Regional Science Fair

Winners Directory

Award: **Microbiology**

First Place: Afeefah Khazi-Syed Division: S **50342**

Project: **NANO Today HUGE Tomorrow Improving Antibiotic Drug Delivery with Nanoparticles**

School **HARMONY SCHOOL OF INNOVATION HIGH**

Advisor **Yavuz Ceylan**

Second Place: Lucy Cai Division: S **44735**

Project: **The Inception of Infection III Developing a Method to Identify Novel Bacteriophage Antibiotic Synergies for the Efficient and Effective Treatment of Planktonic and Biofilm Cultures of Tuberculosis**

School **TEXAS ACADEMY OF MATHEMATICS AND S**

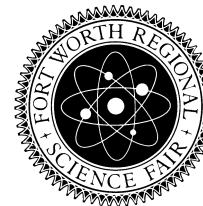
Advisor **Lucy Cai**

Third Place: Mariah Johnson Division: S **08913**

Project: **The Effects of Oregano Oil on Human Epidermis Flora**

School **E.A. YOUNG ACADEMY HS**

Advisor **Carol Raymond**



Fort Worth Regional Science Fair

Winners Directory

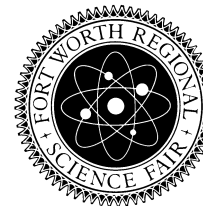
Award: **Physics & Astronomy**

First Place: Emily Baker	Division: S	70002
Project: Physics of the Future Demonstrating Quantum Entanglement		
School Home School	Advisor unknown unknown	

Second Place: Alexander Lu	Division: S	41585
Project: Development of an Open Source Arduino Based PIN Diode Energy Dispersive Detector.		
School TEXAS ACADEMY OF MATHEMATICS AND S	Advisor Lucy Cai	

Third Place: Nicholas Malone	Division: S	52087
Project: WHEN TREES BURN		
School HARMONY SCHOOL OF INNOVATION HIGH	Advisor Yavuz Ceylan	

Honorable Mention: Morgan Young	Division: S	18638
Project: Optimal PSI Inflation Rating of Soccer Balls Used in Professional Competition		
School GRANBURY HIGH SCHOOL	Advisor Janel Morris	
Honorable Mention: Matthew McKelvain	Division: S	18638
Project: Optimal PSI Inflation Rating of Soccer Balls Used in Professional Competition		
School GRANBURY HIGH SCHOOL	Advisor Janel Morris	



Fort Worth Regional Science Fair

Winners Directory

Award: **Plant Sciences**

First Place: Hunter Meroney	Division: S	25158
Project: My pH is better than yours		
School CROSSLAND NINTH GRADE CENTER	Advisor Kayli Morris	

Second Place: Jared Dinsay	Division: S	22391
Project: Soil Contamination		
School SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor Brandon Pope	
Second Place: Julianne Dinsay	Division: S	22391
Project: Soil Contamination		
School SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor Brandon Pope	

Third Place: Miguel Martinez	Division: S	51610
Project: Plant Magnetism		
School SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor Brandon Pope	
Third Place: Nicodemus Turner	Division: S	51610
Project: Plant Magnetism		
School SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor Brandon Pope	
Third Place: Mikel Cardiel	Division: S	51610
Project: Plant Magnetism		
School SUMMIT INTERNATIONAL HIGH SCHOOL	Advisor Brandon Pope	