

## New Mexico Science and Engineering Fair

### Junior Animal Sciences and Microbiology

#### Honorable Mention

---

Joe Harris	JR-ASMB-106	Determining the age of a chicken based on the thickness of the egg shell it laid.	HEIGHTS MIDDLE SCHOOL
Khalifa Ndiaye	JR-ASMB-107	The Surfactant Leach Diner	TAOS ACADEMY

#### Third Place

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Andres Trujillo	JR-ASMB-104	Pulse for Paws	Los Alamos Public Schools
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#### Second Place

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Isabella Halley	JR-ASMB-102	Magic Bacteria	GRANTS HIGH
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#### First Place

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Oscar Groves	JR-ASMB-108	Health Professionals Recommend Chicken NOT be Washed Before Cooking	Jefferson Middle School
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## New Mexico Science and Engineering Fair

### Junior Biomedical and Behavioral Sciences

#### Honorable Mention

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Jenna Chavez	JR-BMBS-204	Killer Beauty: Are your everyday beauty products toxic?	LOS ALAMITOS MIDDLE
Rosa Bonita Schwenk	JR-BMBS-207	How Does Distraction Affect Driving	Sacred Heart Catholic School

#### Third Place

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Marli Prendergast	JR-BMBS-202	Make a Wish ii	LOS ALAMITOS MIDDLE
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#### Second Place

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Lucas Rychener	JR-BMBS-206	How Does Caffeine Affect The Regeneration Of Planarians?	St. Teresa of Avila Catholic School
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#### First Place

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Abigail Baum	JR-BMBS-207	The Best Effortless Method to Control Heart Rate	Albuquerque Institute of Math & Science
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## New Mexico Science and Engineering Fair

### Junior Chemistry

#### Honorable Mention

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Norah Whitton	JR-CHEM-311	For Leavening!	Los Alamos Public Schools
James Work	JR-CHEM-307	Leavening at its Best	Los Alamos Public Schools

#### Third Place

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Ellen White	JR-CHEM-317	Can You Bake at High Altitude? I Can!	Los Alamos Public Schools
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#### Second Place

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Madison Stephens	JR-CHEM-307	But... Can You Get Away With Murder?	LOS ALAMITOS MIDDLE
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#### First Place

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Avianna Bernal	JR-CHEM-307	True Colors	Holy Child Catholic School
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# New Mexico Science and Engineering Fair

## Junior Earth & Environmental Sciences

### Honorable Mention

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Atanacio Gallegos	JR-EAEV-402	Exploring Chili Extract as an Eco-friendly Insecticide	MILAN ELEMENTARY
Mia Romero	JR-EAEV-412	Runoff & Washout Part II	Albuquerque School of Excellence

### Third Place

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Aanya Asoori	JR-EAEV-407	Using Tannic Acid as a Cost-Efficient Flocculant in Different Types of Wastewater	Albuquerque Institute of Math & Science
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### Second Place

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Evan Peña	JR-EAEV-413	Nature Painting: Production of Low VOC, Low Leach Paint	TAOS ACADEMY
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### First Place

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Bryant Bell	JR-EAEV-404	The Solar Generator	Albuquerque Institute of Math & Science
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# New Mexico Science and Engineering Fair

## Junior Engineering

### Honorable Mention

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Edward Bielejec	JR-ENGR-604	Analysis of Insulative Effectiveness as a Function of Polystyrene Foam Density	Albuquerque Academy
Evie Odiamar	JR-ENGR-611	Hovercrafts: How much weight can they hold?	PINON ELEMENTARY

### Third Place

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Gordon Hilton	JR-ENGR-603	The Aerodynamics of a Model Rocket Nose Cone Designs	HERMOSA MIDDLE SCHOOL
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### Second Place

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Maggie Lu	JR-ENGR-601	The Effect Blade Shapes Have on the Rotations per Minute of Waterwheels	Albuquerque Institute of Math & Science
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### First Place

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John Fung	JR-ENGR-610	Building A Better World	Los Alamos Public Schools
Natan Svyatsky	JR-ENGR-610	Building A Better World	Los Alamos Public Schools

## New Mexico Science and Engineering Fair

### Junior Environmental Engineering & Energy

#### Honorable Mention

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Emma Munson	JR-ENEV-501	Hot Garbage!	LOS ALAMITOS MIDDLE
Konik Pearl	JR-ENEV-507	Flying Cars	Albuquerque Institute of Math & Science

#### Third Place

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Victoria Standlee	JR-ENEV-512	Lightning Motors 2.0	St. Thomas Aquinas School
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#### Second Place

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David Brooke	JR-ENEV-510	Developing a Desalination Solar Still Utilizing Mechanisms to Increase Effective Surface Area	Albuquerque Institute of Math & Science
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#### First Place

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Anderson Stoker	JR-ENEV-509	Producing Rocket Fuel with Consideration of Resources Found on Mars	Albuquerque Institute of Math & Science
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## New Mexico Science and Engineering Fair

### Junior Math, Computer Science and Technology

#### Honorable Mention

---

John Avery III	JR-MCST-708	Forensic (Wi-Fi) files	Los Alamos Public Schools
Jillianne Brondo	JR-MCST-703	Critical Thinking: Rubik's Cube Logic	St Bonaventure School

#### Third Place

---

Isabel Duselis	JR-MCST-710	Driving and Arriving	Holy Child Catholic School
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#### Second Place

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Linus Plohr	JR-MCST-704	DuoNumero: Multilingualism in Math	Los Alamos Public Schools
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#### First Place

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Mateo Madrid Larranaga	JR-MCST-705	Coding an In-the-Pocket LED	Jefferson Middle School
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## New Mexico Science and Engineering Fair

### Junior Physics and Astronomy

#### Honorable Mention

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Elizabeth Long	JR-PHAST-81	Coupling the Mechanical Oscillations in a Non-Galilean Pendulum	Albuquerque Institute of Math & Science
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#### Third Place

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Jafar Salem	JR-PHAST-81	Magnetism with Temperature	Salam Academy
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#### Second Place

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Kalliope Welch	JR-PHAST-81	Detecting Exoplanets Through Transits	Welch Homeschool
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#### First Place

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Alisha Wald	JR-PHAST-80	Beyond Detection: Exploring the Science Behind Stealth Innovations	MANDELA INTERNATIONAL MAGNET (MIMS)
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## New Mexico Science and Engineering Fair

### Junior Plant Sciences

#### Honorable Mention

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Elijah Girroir	JR-PLNT-904	Farming with Aeroponics, Aquaponics and Hydroponics	Albuquerque Institute of Math & Science
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#### Third Place

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Rhiannon Patel	JR-PLNT-901	Grey water The Untapped Resource	LOS ALAMITOS MIDDLE
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#### Second Place

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Ahana Koushik	JR-PLNT-906	Generational Impact of Microplastics on Tomato Plants	Albuquerque Academy
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#### First Place

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Harry Lee, III	JR-PLNT-909	Oryctolagus cuniculus Urine Fertilizer 2.0	LOS ALAMITOS MIDDLE
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## New Mexico Science and Engineering Fair

### Senior Animal Sciences & Microbiology

#### Honorable Mention

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Kailynn Hernandez	SR-ASMB-10i	A Natural Nemesis to Fruit Decomposition	Albuquerque Institute of Math & Science
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#### Third Place

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Javier Camarena	SR-ASMB-10'	Decreasing Salinity in Costal Waters Effects on Brine Shrimp and Surrounding Food Chain	Rio Rancho High School
Rylie Reza	SR-ASMB-10'	Decreasing Salinity in Costal Waters Effects on Brine Shrimp and Surrounding Food Chain	Rio Rancho High School

#### Second Place

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Natyus Curley	SR-ASMB-10.	Navajo Tea (Dééh) Antimicrobial Capability	SAN JUAN COLLEGE HIGH SCHOOL
Melaina Yazzie	SR-ASMB-10.	Navajo Tea (Dééh) Antimicrobial Capability	SAN JUAN COLLEGE HIGH SCHOOL

#### First Place

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Lukas Colburn	SR-ASMB-10:	Project Pestalotiopsis	GRANTS HIGH
Ryan Tortalita	SR-ASMB-10:	Project Pestalotiopsis	GRANTS HIGH

## New Mexico Science and Engineering Fair

### Senior Behavioral and Social Sciences

#### Honorable Mention

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Nicole Mangu	SR-BEHA-204	Making Faces: The Correlation Between Emotional Quotient (EQ) and the Ability to Discern False Verbal Statements from Truthful Ones Through an Analysis of Microexpressions	Albuquerque Institute of Math & Science
Alisha Vallejos	SR-BEHA-205	Screen Time and Well Being	GRANTS HIGH

#### Third Place

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Ana Choe	SR-BEHA-206	The Impact of Visuals on Phonological Working Memory	Albuquerque Institute of Math & Science
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#### Second Place

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Lola Cordova-Quinn	SR-BEHA-207	Does Delayed Gratification Correlate to Cognitive Function?	Albuquerque Institute of Math & Science
Carter Higgins	SR-BEHA-208	Does Delayed Gratification Correlate to Cognitive Function?	Albuquerque Institute of Math & Science

#### First Place

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Sawyer Sides	SR-BEHA-209	Numbing Factor: Natural vs Synthetic Anti-Inflammatories on the Behavior, Mortality and Metabolism of Lumbricus terrestris	TAOS ACADEMY
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## New Mexico Science and Engineering Fair

### Senior Biology and Plant Sciences

#### Third Place

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Kyuryeon Kim	SR-BIOP-304	Learning Drug Representation Using Drug-Drug Similarity for Large-Scale Prediction of Drug-Drug Interactions	La Cueva High School
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#### Second Place

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Claire Ross	SR-BIOP-307	Increasing Yield and Food Safety in a Home Grown Hydroponics System with Vermicompost Tea	V. Sue Cleveland High School
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#### First Place

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Dhruv Grandhe	SR-BIOP-303	Modeling Chronic Cadmium Exposure Effects on Epithelial Cell Migration	Albuquerque Academy
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## New Mexico Science and Engineering Fair

### Senior Biomedical and Health Sciences

#### Honorable Mention

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Sophia Rafaelle Romasar	SR-BMED-40	Project Drosophila	GRANTS HIGH
Cash Wodrich	SR-BMED-40	Growing a Cure: Natural Inflammation Reducers on the Morphology and Mortality of Earthworms	TAOS ACADEMY

#### Third Place

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Ariana Maestas	SR-BMED-40	To Dye For Again: Dyes, Sugar, Sugar Substitutes and Preservatives on Daphnia	TAOS ACADEMY
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#### Second Place

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Natashia Anderson	SR-BMED-40	Comprehensive Analysis of Hip Compressive Stress and History of Total Hip Replacements	Navajo Preparatory School
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#### First Place

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Arjun Ganesh	SR-BMED-40	Machine Learning Approaches to Determine Clinicopathologic Factors for Prediction of Immune Infiltration in Melanoma	Albuquerque Academy
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## New Mexico Science and Engineering Fair

### Senior Chemistry

#### Honorable Mention

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Aspyn Kaskalla	SR-CHEM-50	Chemical Analyses of Archeological Pottery Sherds found along the Colorado River, Grand Canyon, Arizona	NAVAJO PREPARATORY SCHOOL (FARMINGTON)
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#### Third Place

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Rachel Taylor	SR-CHEM-50	Effects of Hemotoxins on Mammalian Blood	Rio Rancho High School
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#### Second Place

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Elias Braun	SR-CHEM-51	Carbon Dioxide Capture and Storage Using Acid-Base Neutralization on CO <sub>2</sub> Dissolved in Water	St. Pius X High School
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#### First Place

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Irina Gruzdeva	SR-CHEM-50	Non-Traditional Approaches to Disinfection: The Comeback of Silver Ions	V. Sue Cleveland High School
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# New Mexico Science and Engineering Fair

## Senior Earth & Environmental Sciences

### Honorable Mention

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Taylor Gomez	SR-EAEV-606	Construction of an Environmentally Efficient and Solar-Powered System to Distill Salinated Water for Hydroponic Cultivation	Albuquerque Institute of Math & Science
Saanvi Kadu	SR-EAEV-606	Construction of an Environmentally Efficient and Solar-Powered System to Distill Salinated Water for Hydroponic Cultivation	Albuquerque Institute of Math & Science

### Third Place

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Josh Shaver	SR-EAEV-606	The Effect of Green Roofs on the Interior Temperature of Buildings	Rio Rancho High School
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### Second Place

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Haylei Redhouse	SR-EAEV-606	Title: Investigating concentrations of Uranium and other Hazardous Metals/Metalloids in the Surrounding Environments of Uranium Contaminated Waters on the Navajo Nation	NAVAJO PREPARATORY SCHOOL (FARMINGTON)
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### First Place

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Gene Huntley	SR-EAEV-607	A Realtime Camera Fusion 3D Model with a Novel Feature-Matching and Star Identification-Based Calibration for Tracking Smoke Plumes	V. Sue Cleveland High School
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# New Mexico Science and Engineering Fair

## Senior Engineering

### Honorable Mention

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Andrew Boggan	SR-ENGR-70	MOCHA: Motorized Operator Controlled Hand Apparatus	V. Sue Cleveland High School
Clark Kardian	SR-ENGR-70	MOCHA: Motorized Operator Controlled Hand Apparatus	V. Sue Cleveland High School
Estevan Miera	SR-ENGR-70	PolyShield: Polymer Enhancement of Materials for Impact Reduction	TAOS ACADEMY

### Third Place

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Allyna Thomas	SR-ENGR-70	Does the Choice of Infill Patterns Affect the Result of the Compressive Strength in Weaker or Stronger Materials?	Albuquerque Institute of Math & Science
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### Second Place

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Adalynn LeBaron	SR-ENGR-70	How Blade Shape in Propeller Design Impacts Thrust	Rio Rancho High School
Annika LeBaron	SR-ENGR-70	How Blade Shape in Propeller Design Impacts Thrust	Rio Rancho High School

### First Place

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Asa Hoover	SR-ENGR-70	Triboelectric Nanogenerators: Exploring Material Combinations for Efficient Energy Harvesting	Albuquerque Institute of Math & Science
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# New Mexico Science and Engineering Fair

## Senior Environmental Engineering

### Honorable Mention

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Ember Bahe	SR-ENEV-806	DINÉ(Digitally INtegrated Engineering) Arduino Platform for Environmental Quality, Safety, and Health	NAVAJO PREPARATORY SCHOOL (FARMINGTON)
Sophia Bassett	SR-ENEV-806	Allergy Tea	GRANTS HIGH
John Edwards	SR-ENEV-806	Hydrogen-Oxygen Engine	V. Sue Cleveland High School
Naveen Gonzales	SR-ENEV-806	Making Biodegradable "Water Bottles"	Albuquerque Institute of Math & Science
Benjamin Varos	SR-ENEV-806	Nature Breathe 4: De-Allergenated Plant Materials as Sustainable Media for HVAC Filtration of Aerosol Nanoparticles, VOC's & CO2	TAOS ACADEMY
Joshua Wilson	SR-ENEV-806	Hydrogen-Oxygen Engine	V. Sue Cleveland High School

### Third Place

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Maggie Lonsinger	SR-ENEV-806	Phytoremediation Potential of Yucca elata, Carya illinoensis, and Opuntia ficus-indica for Arsenic and Pollutant Removal in Drinking Water: A Sustainable and Affordable Approach	ALTA VISTA EARLY COLLEGE HIGH SCHOOL
Carlos Martinez	SR-ENEV-806	Phytoremediation Potential of Yucca elata, Carya illinoensis, and Opuntia ficus-indica for Arsenic and Pollutant Removal in Drinking Water: A Sustainable and Affordable Approach	ALTA VISTA EARLY COLLEGE HIGH SCHOOL
Danna Renteria	SR-ENEV-806	Phytoremediation Potential of Yucca elata, Carya illinoensis, and Opuntia ficus-indica for Arsenic and Pollutant Removal in Drinking Water: A Sustainable and Affordable Approach	ALTA VISTA EARLY COLLEGE HIGH SCHOOL

### Second Place

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Orion Gonzales	SR-ENEV-806	The Economic Viability of Dual-Axis Solar Tracking without Computational Technology	Albuquerque Institute of Math & Science
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### First Place

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Enzi Karuho	SR-ENEV-806	Unraveling Metal-Water-Daphnia Nexus in Tap Water, Well Water, and Mine Creek Water: Health Effects and Natural Bio-Adsorbents for Water Quality Enhancement	New Mexico Military Institute
Steven Xu	SR-ENEV-806	Unraveling Metal-Water-Daphnia Nexus in Tap Water, Well Water, and Mine Creek Water: Health Effects and Natural Bio-Adsorbents for Water Quality Enhancement	New Mexico Military Institute
Sylvia Xu	SR-ENEV-806	Unraveling Metal-Water-Daphnia Nexus in Tap Water, Well Water, and Mine Creek Water: Health Effects and Natural Bio-Adsorbents for Water Quality Enhancement	New Mexico Military Institute



## New Mexico Science and Engineering Fair

### Senior Math, Computer Science and Technology

#### Honorable Mention

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Idania Gutierrez	SR-MCST-90	Personal Health Bubble Sensor: Production/Enhancement of Air Quality Sensors for CO <sub>2</sub> , VOC and Particulate Detection	TAOS ACADEMY
Trey Hardy	SR-MCST-90	Oils for Optimal Opacity	GRANTS HIGH
Allison Hobbs	SR-MCST-90	Oils for Optimal Opacity	GRANTS HIGH
Anirudh Nanda	SR-MCST-90	A Comparative Analysis of the CGNR and CAV Iterative Algorithms in Solving Linear Systems of Equations	Albuquerque Institute of Math & Science

#### Third Place

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Helena Welch	SR-MCST-90	Virtually Reconstructing an Ancient Musical Instrument	Welch Homeschool
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#### Second Place

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Henry Tischler	SR-MCST-90	Using Clustered Random Samples to find Spurious Correlations in Neural Networks	The Academy for Technology and the Classics
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#### First Place

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Sowmya Sankaran	SR-MCST-90	Generalization of Object Detection for Multiple Species in Drone Images Using a Fine-Tuned Machine Learning Model	Albuquerque Academy
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## New Mexico Science and Engineering Fair

### Senior Physics, Astronomy, and Materials Sciences

#### Honorable Mention

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Amber Bizardie	SR-PAMS-10	Technological Advances to Make Spacecraft Out of A Hydrophilic or Hydrophobic Material, to Protect Passengers When Landing.	SAN JUAN COLLEGE HIGH SCHOOL
Alfred Jones	SR-PAMS-10	Designing an Optimized Acoustic Lens for Sonic Focus and Enhancement	Albuquerque Institute of Math & Science

#### Third Place

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Joel Saltzman	SR-PAMS-10	ThermoWave: Thermo-acoustic Wave Generation Through Different Color Media and Stack Placement	TAOS ACADEMY
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#### Second Place

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Tate Plohr	SR-PAMS-10	Magnetic Reconnection	Los Alamos Public Schools
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#### First Place

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Brandi Bassett	SR-PAMS-10	Glowing, Glowing, Gone!	GRANTS HIGH
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# New Mexico Science and Engineering Fair

## Junior Animal Sciences and Microbiology

### Honorable Mention

---

Joe Harris	JR-ASMB-106	Determining the age of a chicken based on the thickness of the egg shell it laid.	HEIGHTS MIDDLE SCHOOL
Khalifa Ndiaye	JR-ASMB-101	The Surfactant Leach Diner CO2 & Greenhouse Gas Reduction	TAOS ACADEMY

### Third Place

---

Andres Trujillo	JR-ASMB-104	Pulse for Paws	Los Alamos Public Schools
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### Second Place

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Isabella Halley	JR-ASMB-102	Magic Bacteria NMJAS Paper Competition	GRANTS HIGH
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### First Place

---

Oscar Groves	JR-ASMB-108	Health Professionals Recommend Chicken NOT be Washed Before Cooking	Jefferson Middle School
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# New Mexico Science and Engineering Fair

## Junior Biomedical and Behavioral Sciences

### Honorable Mention

---

Jenna Chavez	JR-BMBS-204	Killer Beauty: Are your everyday beauty products toxic? CO2 & Greenhouse Gas Reduction	LOS ALAMITOS MIDDLE
Jenna Chavez	JR-BMBS-204	Killer Beauty: Are your everyday beauty products toxic? Thermo Fisher	LOS ALAMITOS MIDDLE
Jenna Chavez	JR-BMBS-204	Killer Beauty: Are your everyday beauty products toxic? AAUW	LOS ALAMITOS MIDDLE
Rosa Bonita Schwenk	JR-BMBS-201	How Does Distraction Affect Driving American Psychological Association & Teachers of Psychology in Secondary	Sacred Heart Catholic School

### Third Place

---

Marli Prendergast	JR-BMBS-202	Make a Wish ii	LOS ALAMITOS MIDDLE
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### Second Place

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Lucas Rychener	JR-BMBS-206	How Does Caffeine Affect The Regeneration Of Planarians? CO2 & Greenhouse Gas Reduction	St. Teresa of Avila Catholic School
Lucas Rychener	JR-BMBS-206	How Does Caffeine Affect The Regeneration Of Planarians? NMJAS Paper Competition	St. Teresa of Avila Catholic School

### First Place

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Abigail Baum	JR-BMBS-207	The Best Effortless Method to Control Heart Rate	Albuquerque Institute of Math & Science
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## New Mexico Science and Engineering Fair

### Junior Biomedical and Behavioral Sciences

New Mexicans for Science and Reason (NMSR) Use of Scientific Method

Abigail Baum JR-BMBS-207 The Best Effortless Method to Control Heart Rate  
New Mexico Network for Women in Science & Engineering

Albuquerque Institute of Math & Science

## New Mexico Science and Engineering Fair

### Junior Chemistry

#### Honorable Mention

---

Norah Whitton	JR-CHEM-310	For Leavening!	Los Alamos Public Schools
James Work	JR-CHEM-307	Leavening at its Best	Los Alamos Public Schools

#### Third Place

---

Ellen White	JR-CHEM-310	Can You Bake at High Altitude? I Can!	Los Alamos Public Schools
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American Chemical Society

#### Second Place

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Madison Stephens	JR-CHEM-307	But... Can You Get Away With Murder?	LOS ALAMITOS MIDDLE
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Thermo Fisher

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Madison Stephens	JR-CHEM-307	But... Can You Get Away With Murder?	LOS ALAMITOS MIDDLE
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New Mexico Network for Women in Science & Engineering

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Madison Stephens	JR-CHEM-307	But... Can You Get Away With Murder?	LOS ALAMITOS MIDDLE
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AAUW

#### First Place

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Avianna Bernal	JR-CHEM-307	True Colors	Holy Child Catholic School
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C02 & Greenhouse Gas Reduction

# New Mexico Science and Engineering Fair

## Junior Earth & Environmental Sciences

### Honorable Mention

---

Atanacio Gallegos      JR-EAEV-402      Exploring Chili Extract as an Eco-friendly Insecticide      MILAN ELEMENTARY  
C02 & Greenhouse Gas Reduction

Mia Romero      JR-EAEV-412      Runoff & Washout Part II      Albuquerque School of Excellence  
New Mexico Network for Women in Science & Engineering

### Third Place

---

Aanya Asoori      JR-EAEV-407      Using Tannic Acid as a Cost-Efficient Flocculant in Different      Albuquerque Institute of Math & Science  
Types of Wastewater

Vanetta Perry

Aanya Asoori      JR-EAEV-407      Using Tannic Acid as a Cost-Efficient Flocculant in Different      Albuquerque Institute of Math & Science  
Types of Wastewater

New Mexico Network for Women in Science & Engineering

### Second Place

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Evan Peña      JR-EAEV-413      Nature Painting: Production of Low VOC, Low Leach Paint      TAOS ACADEMY

Thermo Fisher

Evan Peña      JR-EAEV-413      Nature Painting: Production of Low VOC, Low Leach Paint      TAOS ACADEMY

New Mexico Bureau of Geology and Mineral Resources & the New Mexico Geological Society

### First Place

---

Bryant Bell      JR-EAEV-404      The Solar Generator      Albuquerque Institute of Math & Science

# New Mexico Science and Engineering Fair

## Junior Engineering

### Honorable Mention

---

Edward Bielejec	JR-ENGR-604	Analysis of Insulative Effectiveness as a Function of Polystyrene Foam Density	Albuquerque Academy
C02 & Greenhouse Gas Reduction			
Evie Odiamar	JR-ENGR-610	Hovercrafts: How much weight can they hold?	PINON ELEMENTARY

### Third Place

---

Gordon Hilton	JR-ENGR-600	The Aerodynamics of a Model Rocket Nose Cone Designs	HERMOSA MIDDLE SCHOOL
Office of Naval Research (ONR)			

### Second Place

---

Maggie Lu	JR-ENGR-600	The Effect Blade Shapes Have on the Rotations per Minute of Waterwheels	Albuquerque Institute of Math & Science
AAUW			

### First Place

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John Fung	JR-ENGR-610	Building A Better World	Los Alamos Public Schools
Thermo Fisher			
Natan Svyatsky	JR-ENGR-610	Building A Better World	Los Alamos Public Schools
Thermo Fisher			

# New Mexico Science and Engineering Fair

## Junior Environmental Engineering & Energy

### Honorable Mention

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Emma Munson	JR-ENEV-501	Hot Garbage!	LOS ALAMITOS MIDDLE
New Mexicans for Science and Reason (NMSR) Use of Scientific Method			
Emma Munson	JR-ENEV-501	Hot Garbage!	LOS ALAMITOS MIDDLE
ASM International - Los Alamos Chapter			
Emma Munson	JR-ENEV-501	Hot Garbage!	LOS ALAMITOS MIDDLE
CO2 & Greenhouse Gas Reduction			
Emma Munson	JR-ENEV-501	Hot Garbage!	LOS ALAMITOS MIDDLE
Thermo Fisher			
Emma Munson	JR-ENEV-501	Hot Garbage!	LOS ALAMITOS MIDDLE
New Mexico Network for Women in Science & Engineering			
Emma Munson	JR-ENEV-501	Hot Garbage!	LOS ALAMITOS MIDDLE
AAUW			
Konik Pearl	JR-ENEV-507	Flying Cars	Albuquerque Institute of Math & Science

### Third Place

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Victoria Standlee	JR-ENEV-512	Lightning Motors 2.0	St. Thomas Aquinas School
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### Second Place

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David Brooke	JR-ENEV-51C	Developing a Desalination Solar Still Utilizing Mechanisms to Increase Effective Surface Area	Albuquerque Institute of Math & Science
Thermo Fisher			
David Brooke	JR-ENEV-51C	Developing a Desalination Solar Still Utilizing Mechanisms to Increase Effective Surface Area	Albuquerque Institute of Math & Science
NMJAS Paper Competition			

### First Place

---

Anderson Stoker	JR-ENEV-50C	Producing Rocket Fuel with Consideration of Resources Found on Mars	Albuquerque Institute of Math & Science
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# New Mexico Science and Engineering Fair

## Junior Math, Computer Science and Technology

### Honorable Mention

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John Avery III	JR-MCST-704	Forensic (Wi-Fi) files	Los Alamos Public Schools
Jillianne Brondo	JR-MCST-703	Critical Thinking: Rubik's Cube Logic	St Bonaventure School

### Third Place

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Isabel Duselis	JR-MCST-710	Driving and Arriving CO2 & Greenhouse Gas Reduction	Holy Child Catholic School
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### Second Place

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Linus Plohr	JR-MCST-704	DuoNumero: Multilingualism in Math Thermo Fisher	Los Alamos Public Schools
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Linus Plohr	JR-MCST-704	DuoNumero: Multilingualism in Math NMJAS Paper Competition	Los Alamos Public Schools
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### First Place

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Mateo Madrid Larranaga	JR-MCST-708	Coding an In-the-Pocket LED CO2 & Greenhouse Gas Reduction	Jefferson Middle School
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# New Mexico Science and Engineering Fair

## Junior Physics and Astronomy

### Honorable Mention

---

Elizabeth Long	JR-PHAST-81	Coupling the Mechanical Oscillations in a Non-Galilean Pendulum	Albuquerque Institute of Math & Science
Thermo Fisher			

Elizabeth Long	JR-PHAST-81	Coupling the Mechanical Oscillations in a Non-Galilean Pendulum	Albuquerque Institute of Math & Science
AAUW			

### Third Place

---

Jafar Salem	JR-PHAST-81	Magnetism with Temperature	Salam Academy
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### Second Place

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Kalliope Welch	JR-PHAST-81	Detecting Exoplanets Through Transits	Welch Homeschool
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### First Place

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Alisha Wald	JR-PHAST-8C	Beyond Detection: Exploring the Science Behind Stealth Innovations	MANDELA INTERNATIONAL MAGNET (MIMS)
C02 & Greenhouse Gas Reduction			

Alisha Wald	JR-PHAST-8C	Beyond Detection: Exploring the Science Behind Stealth Innovations	MANDELA INTERNATIONAL MAGNET (MIMS)
Office of Naval Research (ONR)			

Alisha Wald	JR-PHAST-8C	Beyond Detection: Exploring the Science Behind Stealth Innovations	MANDELA INTERNATIONAL MAGNET (MIMS)
Thermo Fisher			

Alisha Wald	JR-PHAST-8C	Beyond Detection: Exploring the Science Behind Stealth Innovations	MANDELA INTERNATIONAL MAGNET (MIMS)
New Mexico Network for Women in Science & Engineering			

Alisha Wald	JR-PHAST-8C	Beyond Detection: Exploring the Science Behind Stealth Innovations	MANDELA INTERNATIONAL MAGNET (MIMS)
AAUW			



# New Mexico Science and Engineering Fair

## Junior Plant Sciences

### Honorable Mention

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Elijah Girroir	JR-PLNT-904	Farming with Aeroponics, Aquaonics and Hydroponics	Albuquerque Institute of Math & Science
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### Third Place

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Rhiannon Patel	JR-PLNT-901	Grey water The Untapped Resource NOAA	LOS ALAMITOS MIDDLE
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### Second Place

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Ahana Koushik	JR-PLNT-906	Generational Impact of Microplastics on Tomato Plants Thermo Fisher	Albuquerque Academy
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Ahana Koushik	JR-PLNT-906	Generational Impact of Microplastics on Tomato Plants AAUW	Albuquerque Academy
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### First Place

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Harry Lee, III	JR-PLNT-909	Oryctolagus cuniculus Urine Fertilizer 2.0 CO2 & Greenhouse Gas Reduction	LOS ALAMITOS MIDDLE
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# New Mexico Science and Engineering Fair

## Senior Animal Sciences & Microbiology

### Honorable Mention

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Kailynn Hernandez	SR-ASMB-10	A Natural Nemesis to Fruit Decomposition	Albuquerque Institute of Math & Science
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### Third Place

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Javier Camarena	SR-ASMB-10	Decreasing Salinity in Costal Waters Effects on Brine Shrimp and Surrounding Food Chain	Rio Rancho High School
C02 & Greenhouse Gas Reduction			

Javier Camarena	SR-ASMB-10	Decreasing Salinity in Costal Waters Effects on Brine Shrimp and Surrounding Food Chain	Rio Rancho High School
NOAA			

Rylie Reza	SR-ASMB-10	Decreasing Salinity in Costal Waters Effects on Brine Shrimp and Surrounding Food Chain	Rio Rancho High School
C02 & Greenhouse Gas Reduction			

Rylie Reza	SR-ASMB-10	Decreasing Salinity in Costal Waters Effects on Brine Shrimp and Surrounding Food Chain	Rio Rancho High School
NOAA			

### Second Place

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Natyls Curley	SR-ASMB-10	Navajo Tea (D��h) Antimicrobial Capability	SAN JUAN COLLEGE HIGH SCHOOL
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Melaina Yazzie	SR-ASMB-10	Navajo Tea (D��h) Antimicrobial Capability	SAN JUAN COLLEGE HIGH SCHOOL
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### First Place

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Lukas Colburn	SR-ASMB-10	Project Pestalotiopsis	GRANTS HIGH
C02 & Greenhouse Gas Reduction			

Ryan Tortalita	SR-ASMB-10	Project Pestalotiopsis	GRANTS HIGH
C02 & Greenhouse Gas Reduction			

# New Mexico Science and Engineering Fair

## Senior Behavioral and Social Sciences

### Honorable Mention

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Nicole Mangu SR-BEHA-2024 Making Faces: The Correlation Between Emotional Quotient (EQ) and the Ability to Discern False Verbal Statements from Truthful Ones Through an Analysis of Microexpressions Albuquerque Institute of Math & Science

New Mexico Network for Women in Science & Engineering

Alisha Vallejos SR-BEHA-2024 Screen Time and Well Being GRANTS HIGH  
CO2 & Greenhouse Gas Reduction

### Third Place

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Ana Choe SR-BEHA-2024 The Impact of Visuals on Phonological Working Memory Albuquerque Institute of Math & Science

### Second Place

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Lola Cordova-Quinn SR-BEHA-2024 Does Delayed Gratification Correlate to Cognitive Function? Albuquerque Institute of Math & Science

Carter Higgins SR-BEHA-2024 Does Delayed Gratification Correlate to Cognitive Function? Albuquerque Institute of Math & Science

### First Place

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Sawyer Sides SR-BEHA-2024 Numbing Factor: Natural vs Synthetic Anti-Inflammatories on the Behavior, Mortality and Metabolism of Lumbricus terrestris TAOS ACADEMY

CO2 & Greenhouse Gas Reduction

Sawyer Sides SR-BEHA-2024 Numbing Factor: Natural vs Synthetic Anti-Inflammatories on the Behavior, Mortality and Metabolism of Lumbricus terrestris TAOS ACADEMY

New Mexico Network for Women in Science & Engineering

# New Mexico Science and Engineering Fair

## Senior Biology and Plant Sciences

### Third Place

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Kyuryeon Kim	SR-BIOP-304	Learning Drug Representation Using Drug-Drug Similarity for Large-Scale Prediction of Drug-Drug Interactions	La Cueva High School
American Chemical Society			

Kyuryeon Kim	SR-BIOP-304	Learning Drug Representation Using Drug-Drug Similarity for Large-Scale Prediction of Drug-Drug Interactions	La Cueva High School
NMJAS Paper Competition			

### Second Place

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Claire Ross	SR-BIOP-307	Increasing Yield and Food Safety in a Home Grown Hydroponics System with Vermicompost Tea	V. Sue Cleveland High School
CO2 & Greenhouse Gas Reduction			

Claire Ross	SR-BIOP-307	Increasing Yield and Food Safety in a Home Grown Hydroponics System with Vermicompost Tea	V. Sue Cleveland High School
Office of Naval Research (ONR)			

### First Place

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Dhruv Grandhe	SR-BIOP-303	Modeling Chronic Cadmium Exposure Effects on Epithelial Cell Migration	Albuquerque Academy
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# New Mexico Science and Engineering Fair

## Senior Biomedical and Health Sciences

### Honorable Mention

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Sophia Rafaelle Romasar	SR-BMED-40	Project Drosophila	GRANTS HIGH
Cash Wodrich	SR-BMED-40	Growing a Cure: Natural Inflammation Reducers on the Morphology and Mortality of Earthworms	TAOS ACADEMY
CO2 & Greenhouse Gas Reduction			

### Third Place

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Ariana Maestas	SR-BMED-40	To Dye For Again: Dyes, Sugar, Sugar Substitutes and Preservatives on Daphnia	TAOS ACADEMY
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### Second Place

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Natashia Anderson	SR-BMED-40	Comprehensive Analysis of Hip Compressive Stress and History of Total Hip Replacements	Navajo Preparatory School
Rex Robinson Award			

### First Place

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Arjun Ganesh	SR-BMED-40	Machine Learning Approaches to Determine Clinicopathologic Factors for Prediction of Immune Infiltration in Melanoma	Albuquerque Academy
CO2 & Greenhouse Gas Reduction			
Arjun Ganesh	SR-BMED-40	Machine Learning Approaches to Determine Clinicopathologic Factors for Prediction of Immune Infiltration in Melanoma	Albuquerque Academy
Regeneron Biomedical Science Award			
Arjun Ganesh	SR-BMED-40	Machine Learning Approaches to Determine Clinicopathologic Factors for Prediction of Immune Infiltration in Melanoma	Albuquerque Academy
Clay T. Smith			

# New Mexico Science and Engineering Fair

## Senior Chemistry

### Honorable Mention

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Aspyn Kaskalla	SR-CHEM-50	Chemical Analyses of Archeological Pottery Sherds found along the Colorado River, Grand Canyon, Arizona	NAVAJO PREPARATORY SCHOOL (FARMINGTON)
American Chemical Society			

### Third Place

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Rachel Taylor	SR-CHEM-50	Effects of Hemotoxins on Mammalian Blood	Rio Rancho High School
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### Second Place

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Elias Braun	SR-CHEM-51	Carbon Dioxide Capture and Storage Using Acid-Base Neutralization on CO2 Dissolved in Water	St. Pius X High School
CO2 & Greenhouse Gas Reduction			

Elias Braun	SR-CHEM-51	Carbon Dioxide Capture and Storage Using Acid-Base Neutralization on CO2 Dissolved in Water	St. Pius X High School
CO2 & Greenhouse Gas Reduction Scholarship			

### First Place

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Irina Gruzdeva	SR-CHEM-50	Non-Traditional Approaches to Disinfection: The Comeback of Silver Ions	V. Sue Cleveland High School
United States Air Force			

Irina Gruzdeva	SR-CHEM-50	Non-Traditional Approaches to Disinfection: The Comeback of Silver Ions	V. Sue Cleveland High School
AAUW			

# New Mexico Science and Engineering Fair

## Senior Earth & Environmental Sciences

### Honorable Mention

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Taylor Gomez	SR-EAEV-603	Construction of an Environmentally Efficient and Solar-Powered System to Distill Salinated Water for Hydroponic Cultivation	Albuquerque Institute of Math & Science
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Yale Science and Engineering Association

Taylor Gomez	SR-EAEV-603	Construction of an Environmentally Efficient and Solar-Powered System to Distill Salinated Water for Hydroponic Cultivation	Albuquerque Institute of Math & Science
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New Mexico Network for Women in Science & Engineering

Saanvi Kadu	SR-EAEV-603	Construction of an Environmentally Efficient and Solar-Powered System to Distill Salinated Water for Hydroponic Cultivation	Albuquerque Institute of Math & Science
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Yale Science and Engineering Association

Saanvi Kadu	SR-EAEV-603	Construction of an Environmentally Efficient and Solar-Powered System to Distill Salinated Water for Hydroponic Cultivation	Albuquerque Institute of Math & Science
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New Mexico Network for Women in Science & Engineering

### Third Place

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Josh Shaver	SR-EAEV-603	The Effect of Green Roofs on the Interior Temperature of Buildings	Rio Rancho High School
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### Second Place

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Haylei Redhouse	SR-EAEV-603	Title: Investigating concentrates of Uranium and other Hazardous Metals/Metalloids in the Surrounding Environments of Uranium Contaminated Waters on the Navajo Nation	NAVAJO PREPARATORY SCHOOL (FARMINGTON)
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### First Place

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Gene Huntley	SR-EAEV-607	A Realtime Camera Fusion 3D Model with a Novel Feature-Matching and Star Identification-Based Calibration for Tracking Smoke Plumes	V. Sue Cleveland High School
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NASA EARTH System Science Award

Gene Huntley	SR-EAEV-607	A Realtime Camera Fusion 3D Model with a Novel Feature-Matching and Star Identification-Based Calibration for Tracking Smoke Plumes	V. Sue Cleveland High School
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Teresa Johnson

Gene Huntley	SR-EAEV-607	A Realtime Camera Fusion 3D Model with a Novel Feature-Matching and Star Identification-Based Calibration for Tracking Smoke Plumes	V. Sue Cleveland High School
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New Mexico Bureau of Geology and Mineral Resources & the New Mexico Geological Society

Gene Huntley	SR-EAEV-607	A Realtime Camera Fusion 3D Model with a Novel Feature-Matching and Star Identification-Based Calibration for Tracking Smoke Plumes	V. Sue Cleveland High School
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NMJAS Paper Competition

Gene Huntley	SR-EAEV-607	A Realtime Camera Fusion 3D Model with a Novel Feature-Matching and Star Identification-Based Calibration for Tracking Smoke Plumes	V. Sue Cleveland High School
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# New Mexico Science and Engineering Fair

## Senior Earth & Environmental Sciences

Richard N. Overdorf Grand Award

# New Mexico Science and Engineering Fair

## Senior Engineering

### Honorable Mention

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Andrew Boggan	SR-ENGR-70	MOCHA: Motorized Operator Controlled Hand Apparatus	V. Sue Cleveland High School
Clark Kardian	SR-ENGR-70	MOCHA: Motorized Operator Controlled Hand Apparatus	V. Sue Cleveland High School
Estevan Miera	SR-ENGR-70	PolyShield: Polymer Enhancement of Materials for Impact Reduction	TAOS ACADEMY

### Third Place

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Allyna Thomas	SR-ENGR-70	Does the Choice of Infill Patterns Affect the Result of the Compressive Strength in Weaker or Stronger Materials?	Albuquerque Institute of Math & Science
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### Second Place

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Adalynn LeBaron	SR-ENGR-70	How Blade Shape in Propeller Design Impacts Thrust	Rio Rancho High School
New Mexico Network for Women in Science & Engineering			
Annika LeBaron	SR-ENGR-70	How Blade Shape in Propeller Design Impacts Thrust	Rio Rancho High School
New Mexico Network for Women in Science & Engineering			

### First Place

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Asa Hoover	SR-ENGR-70	Triboelectric Nanogenerators: Exploring Material Combinations for Efficient Energy Harvesting	Albuquerque Institute of Math & Science
CO2 & Greenhouse Gas Reduction			



# New Mexico Science and Engineering Fair

## Senior Environmental Engineering

### Honorable Mention

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Ember Bahe	SR-ENEV-80	DINÉ(Digitally INtegrated Engineering) Arduino Platform for Environmental Quality, Safety, and Health	NAVAJO PREPARATORY SCHOOL (FARMINGTON)
New Mexico Network for Women in Science & Engineering			
Sophia Bassett	SR-ENEV-80	Allergy Tea	GRANTS HIGH
John Edwards	SR-ENEV-80	Hydrogen-Oxygen Engine	V. Sue Cleveland High School
U.S. Agency for International Development (USAID)			
John Edwards	SR-ENEV-80	Hydrogen-Oxygen Engine	V. Sue Cleveland High School
John Harty			
Naveen Gonzales	SR-ENEV-80	Making Biodegradable "Water Bottles"	Albuquerque Institute of Math & Science
Benjamin Varos	SR-ENEV-80	Nature Breathe 4: De-Allergenated Plant Materials as Sustainable Media for HVAC Filtration of Aerosol Nanoparticles, VOC's & CO2	TAOS ACADEMY
CO2 & Greenhouse Gas Reduction			
Joshua Wilson	SR-ENEV-80	Hydrogen-Oxygen Engine	V. Sue Cleveland High School
U.S. Agency for International Development (USAID)			
Joshua Wilson	SR-ENEV-80	Hydrogen-Oxygen Engine	V. Sue Cleveland High School
John Harty			

### Third Place

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Maggie Lonsinger	SR-ENEV-80	Phytoremediation Potential of Yucca elata, Carya illinoensis, and Opuntia ficus-indica for Arsenic and Pollutant Removal in Drinking Water: A Sustainable and Affordable Approach	ALTA VISTA EARLY COLLEGE HIGH SCHOOL
CO2 & Greenhouse Gas Reduction			
Carlos Martinez	SR-ENEV-80	Phytoremediation Potential of Yucca elata, Carya illinoensis, and Opuntia ficus-indica for Arsenic and Pollutant Removal in Drinking Water: A Sustainable and Affordable Approach	ALTA VISTA EARLY COLLEGE HIGH SCHOOL
CO2 & Greenhouse Gas Reduction			
Danna Renteria	SR-ENEV-80	Phytoremediation Potential of Yucca elata, Carya illinoensis, and Opuntia ficus-indica for Arsenic and Pollutant Removal in Drinking Water: A Sustainable and Affordable Approach	ALTA VISTA EARLY COLLEGE HIGH SCHOOL
CO2 & Greenhouse Gas Reduction			

### Second Place

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Orion Gonzales	SR-ENEV-80	The Economic Viability of Dual-Axis Solar Tracking without Computational Technology	Albuquerque Institute of Math & Science
Ricoh Sustainable Development Award			

### First Place

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Enzi Karuhu	SR-ENEV-80	Unraveling Metal-Water-Daphnia Nexus in Tap Water, Well Water, and Mine Creek Water: Health Effects and Natural Bio-Adsorbents for Water Quality Enhancement	New Mexico Military Institute
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## New Mexico Science and Engineering Fair

### Senior Environmental Engineering

Steven Xu	SR-ENEV-806	Unraveling Metal-Water-Daphnia Nexus in Tap Water, Well Water, and Mine Creek Water: Health Effects and Natural Bio-Adsorbents for Water Quality Enhancement	New Mexico Military Institute
Sylvia Xu	SR-ENEV-806	Unraveling Metal-Water-Daphnia Nexus in Tap Water, Well Water, and Mine Creek Water: Health Effects and Natural Bio-Adsorbents for Water Quality Enhancement	New Mexico Military Institute

## New Mexico Science and Engineering Fair

### Senior Math, Computer Science and Technology

#### Honorable Mention

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Idania Gutierrez	SR-MCST-90	Personal Health Bubble Sensor: Production/Enhancement of Air Quality Sensors for CO <sub>2</sub> , VOC and Particulate Detection CO <sub>2</sub> & Greenhouse Gas Reduction	TAOS ACADEMY
Trey Hardy	SR-MCST-90	Oils for Optimal Opacity	GRANTS HIGH
Allison Hobbs	SR-MCST-90	Oils for Optimal Opacity	GRANTS HIGH
Anirudh Nanda	SR-MCST-90	A Comparative Analysis of the CGNR and CAV Iterative Algorithms in Solving Linear Systems of Equations	Albuquerque Institute of Math & Science

#### Third Place

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Helena Welch	SR-MCST-90	Virtually Reconstructing an Ancient Musical Instrument New Mexico Network for Women in Science & Engineering	Welch Homeschool
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#### Second Place

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Henry Tischler	SR-MCST-90	Using Clustered Random Samples to find Spurious Correlations in Neural Networks	The Academy for Technology and the Classics
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#### First Place

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Sowmya Sankaran	SR-MCST-90	Generalization of Object Detection for Multiple Species in Drone Images Using a Fine-Tuned Machine Learning Model New Mexico Network for Women in Science & Engineering	Albuquerque Academy
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# New Mexico Science and Engineering Fair

## Senior Physics, Astronomy, and Materials Sciences

### Honorable Mention

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Amber Bizardie	SR-PAMS-101	Technological Advances to Make Spacecraft Out of A Hydrophilic or Hydrophobic Material, to Protect Passengers When Landing.	SAN JUAN COLLEGE HIGH SCHOOL
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United States Metric Association

Alfred Jones	SR-PAMS-101	Designing an Optimized Acoustic Lens for Sonic Focus and Enhancement	Albuquerque Institute of Math & Science
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United States Air Force

### Third Place

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Joel Saltzman	SR-PAMS-101	ThermoWave: Thermo-acoustic Wave Generation Through Different Color Media and Stack Placement	TAOS ACADEMY
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### Second Place

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Tate Plohr	SR-PAMS-101	Magnetic Reconnection	Los Alamos Public Schools
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### First Place

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Brandi Bassett	SR-PAMS-101	Glowing, Glowing, Gone! CO2 & Greenhouse Gas Reduction	GRANTS HIGH
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Brandi Bassett	SR-PAMS-101	Glowing, Glowing, Gone! Office of Naval Research (ONR)	GRANTS HIGH
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Brandi Bassett	SR-PAMS-101	Glowing, Glowing, Gone! David Shortess	GRANTS HIGH
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Brandi Bassett	SR-PAMS-101	Glowing, Glowing, Gone! AAUW	GRANTS HIGH
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