

First Place



Team #26 Neuromorphic Computing:
Simulating the Brain's Visual Cortex

School: Los Alamos High School

Team Member: Robert Strauss

Sponsor: Charlie Strauss



WONDERFUL ACHIEVEMENT!!



Second Place

Team #13 SIN(language) Visualizing Acoustics During
CoVID-19 with Spatial Signal Processing

School: New Mexico School for the Arts

Team Members: Rowan Jansens,
Madelyn Kingston,
Brandon Morrison

Teacher/Sponsor: Mohit Dubey



GOOD WORK!



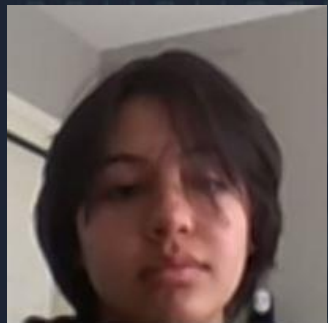
Third Place

Team #1 Forecasting Dangerous Levels of
Ground Ozone with Machine Learning

School: V. Sue Cleveland High School

Team Members: Eliana Juarez, Sofia Juarez,
Graciela Rodriguez

Teacher/Sponsors: Ms. Johnston, Ms. Huey



CONGRATULATIONS!



New Schools to the Challenge This Year

AIMS @ UNM

V. Sue Cleveland High School

Corona High School

Clovis Early College High

Harrison Middle School - APS

Justice Code - Rio & ABQ High

La Cueva High School - APS

San Juan College High

Sandia Prep School

Santa Teresa High School

St. Thomas Aquinas



The Finalists (each team member receives \$50)

Team #1 *Forecasting Dangerous Levels of Ground Ozone with Machine Learning*

School: V. Sue Cleveland High School

Members: Eliana Juarez, Graciela Rodriguez, Sofia Juarez

Teacher/Sponsors: Ms. Johnston, Ms. Huey

Team # 8 *Machine Learning in Cancer Treatment: A Computational Method to Compile the Most Practical Treatment*

School: Clovis High Early College

Members: Alexis Brandsma, Erynn Vetterly, Tristen Pool



The Finalists

Team #13 *SIN(language) Visualizing Acoustics During COVID-19 with Spatial Signal Processing*

School: New Mexico School for the Arts

Members: Rowan Jansens, Madelyn Kingston, Brandon Morrison

Teacher/Sponsor: Mohit Dubey

Team # 26 *Neuromorphic Computing: Simulating the Brain's Visual Cortex*

School: Los Alamos High School

Member: Robert Strauss

Sponsor: Charlie Strauss



The Finalists

Team # 34 Exploring Simple Spatial Models of River Flooding
School: La Cueva High School
Member: Yana Outkin
Sponsor: Yolanda Lozano

Team # 41 Epidemiology model of Covid-19
School: Los Lunas High
Member: Delsin Jaramillo
Sponsors: Abe Anderson, Creighton Edington



The Finalists

Team # 46 Considerations Factoring in the Speed of CoVID-19 Spread

Schools: Rio Grande High School, Albuquerque High School

Members: Sayra Medrano-Lopez, Ambrosia Moraga, Joylissa Rodriguez

Sponsors: Caia Brown, Becky Campbell, Ryan Palmer

Team # 60 To Catch A Battleship

School: Media Arts Collaborative Charter School

Member: Tyler Wyskochil

Sponsor: Tanya Mueller



Newcomer Award

Team #60 To Catch a Battleship
School: Media Arts Charter School
Team Member: Tyler Wyskochil
Teacher: Tanya Mueller
Mentors: Creighton Edington,
Harry Henderson



Magellan Award



School: St. Thomas Aquinas

Members: Liam Chavez, Emmanuel Padilla, Jacob Soli,
Aubrey Rodela, Vanessa Cichy, Franchesca
Nyberg

Teacher/Sponsor: Mr. Eric Vigil



Agent-based Model using NetLogo Award

Team #46 Considerations Factoring in the Speed
CoVID-19 Spread

School: Rio Grande High, Albuquerque High

Team Members: Sayra Medrano-Lopez,
Ambrosia Moraga, Joylissa Rodriguez

Teacher/Sponsor: Caia Brown, Becky Campbell,
Ryan Palmer

The NetLogo logo is displayed on a horizontal banner. The banner features a blue sky with white clouds and a green ground line at the bottom. The text "NetLogo" is written in a bold, black, sans-serif font on the left side of the banner. On the right side of the banner, there is a cluster of red arrows pointing to the left, arranged in a pattern that suggests movement or a flock.

NetLogo



Senator Lujan's Innovation in Programming Award

Team #28 Different Methods for 3D Rendering

School: Los Alamos Middle School

Team Member: Andrew Morgan

Sponsor: Nathaniel Morgan





Technical Writing Award

Team #1 Forecasting Dangerous Levels of Ground Ozone with Machine Learning

School: V. Sue Cleveland High School

Team Members: Eliana Juarez, Graciela Rodriguez, Sofia Juarez

Teacher/Sponsors: Ms. Johnston, Ms. Huey



Community Impact Award



Team #56 Police and Citizen Interactions
School: Saturday Science and Math Academy
Team Members: Vashti Grant, Judie Oyinatumba,
Kay Polston
Sponsor: Ryan Palmer



Middle School Award

Team #45 Ocean/Acequia Pollution

School: Harrison Middle School

Team Members: Elian Diaz, Adamaris Hernandez,
Dominic Mata, Homero Rascon,
Daisy Ordonez, Victor Gonzalez

Sponsors: Ryan Palmer, Caia Brown, Rebecca Campbell



Teacher Appreciation Award



Recipient

Barbara Teterycz
Capital High
Santa Fe

Special shout out to
Creighton Edington for his
mentoring this year!

Sponsored by Shaun Cooper



BE BOLD. Shape the Future.
New Mexico State University



Cybersecurity Award

Team #10 unCAPTCHA: AI Recognition of Distorted Text in Images

School: Capital High, Santa Fe

Team Members: Hansel Chavez, Jonathan Garcia,
Manuel Bojarquez, Isel Aragon

Teacher/Sponsor: Irina Cislaru, Barbara Teterycz

Mentor: Dr. Przemek Wozniak (LANL)



NMTIE Research Award

NMTIE

Furthering Education through Technology

Team #46 Considerations Factoring in the Speed of
CoVID-19 Spread

Schools: Rio Grande High School, Albuquerque High School

Team Members: Sayra Medrano-Lopez,
Ambrosia Moraga, Joylissa Rodriguez

Sponsors: Caia Brown, Becky Campbell, Ryan Palmer



NMTIE Teamwork Award

NMTIE

Furthering Education through Technology

Team #3 Keeping Personal Assistant Devices Secure at Home: The Google Home Mini (GHM)

Schools: Eldorado High School/Manzano High School

Team Members: Nancy Avila, Candis Canaday, Gwenevere Caouette, Kyreen White

Teacher/Sponsor: Sharee Lunsford, Karen Glennon



Creativity and Innovation Award



Team #34 Exploring Simple Spatial Models of River
Flooding

School: La Cueva High School

Team Member: Yana Outkin

Teacher/Sponsor: Yolanda Lozano



Equity and Access Award

Harrison Middle School Colleagues

Caia Brown, Rebecca Campbell, and Ryan Palmer

Passionate models of lifelong learning and teaming, engaging students in new content, in unique ways.

Honored with a donated laptop to support coding club and summer STEAM-L camps.



New Mexico Network for Women in Science and Engineering



Team #51 Using Hemispheric Sensing with Trajectory Prediction to Mechanically Dodge Space Debris

School: AIMS - UNM

Team Member: McKenna Collins

Sponsor: Creighton Edington



Environmental Modeling

Team #20 **Effects of Ozone Depletion on Humans**
School: NMMI
Team Members: Ryan Lee, Jaejoon Lee, Yoo Younggun
Sponsor: Mark Stone



Human Computer Interaction

Sponsored by
Stephen Guerin, SimTable



Team #24 Technology for a Combat Drone
School: Los Alamos High School
Team Members: Daniel Kim, Andres Iturregui



Expo Judges' Special Award

Heart, Drive for Success

Team #15 Simulating Pleistocene Park

School: Monte del Sol Charter School

Team Members: Brooklyn Martinez, Isabella
Martinez, Kaley Martinez



Expo Judges' Special Award

Urban Impact

Team #57 Traveling on the Road

School: Saturday Science and Math Academy

Team Members: Isaac Rankin, McLight Emma-Asonye,
Kingsley Walker

Sponsor: Caia Brown



Expo Judges' Special Award

Economics

Team #4 Relationship Between Employment and Automation

Schools: Cottonwood Classical/Del Norte High School

Team Members: Ayvree Urrea, Kiara Onomoto

Teacher/Sponsor: Karen Glennon, Patty Meyer



Finalist Judges' Special Award

Leadership Through Computing

Team **#41 Epidemiology model of CoVID-19**
School: **Los Lunas High School**
Team Member: **Delsin Jaramillo**
Sponsor: **Abe Anderson**



Finalist Judges' Special Award

Machine Learning

Team #8 **Machine Learning in Cancer Treatment:
A Computational Method to Compile the
Most Practical Treatment**

School: **Clovis High Early College**

Team Members: **Alexis Brandsma, Erynn Vetterly,
Tristen Pool**



Scholarship Recipients

High School

University

Hansel Chavez

Capital High

CNM

McKenna Collins

AIMS @ UNM

UNM

Evelyn Garrett

House High

ENMU

Delsin Jaramillo

Los Lunas High

NM Tech

