

**70th Annual
Greater San Diego Science and Engineering Fair**

2024

SECOND AWARDS

Second Award Junior Division



Second Award - Junior Division
Animal Sciences

The background of the slide is a dark, abstract composition. It features numerous thin, diagonal lines of light in shades of green and blue, creating a sense of depth and movement. Interspersed among these lines are vertical columns of small, glowing characters, primarily '0's and '1's, reminiscent of a digital data stream or binary code. The overall effect is a futuristic, high-tech aesthetic.

Second Award - Junior Division
Animal Sciences

Gabriella Harris

Nazareth School
Advisor: M. Reed

Second Award - Junior Division
Animal Sciences

Khadija Paband

Bright Horizon Academy
Advisor: N. Naserelddin

Second Award - Junior Division
Animal Sciences

Daniel Snyder

San Diego Hebrew Day School
Advisor: J. Rivard

Second Award - Junior Division
Behavioral and Social Sciences



Second Award - Junior Division
Behavioral and Social Sciences

Sadie Altman

San Diego Hebrew Day School
Advisor: J. Rivard

**Second Award - Junior Division
Behavioral and Social Sciences**

Reem Essa

**Bright Horizon Academy
Advisor: N. Naserelddin**

Second Award - Junior Division
Behavioral and Social Sciences

Emma Mansur

San Diego Hebrew Day School
Advisor: J. Rivard

Second Award - Junior Division
Behavioral and Social Sciences

Josephina Perham

The Children's School
Advisor: D. Quincannon

Second Award - Junior Division
Biochemistry

The background of the slide is a dark, almost black, space filled with abstract, glowing green and blue streaks that radiate from the bottom center towards the top. These streaks vary in thickness and intensity, creating a sense of depth and movement. Interspersed among these streaks are faint, vertical columns of binary code (0s and 1s) in a light green color, which appear to be part of a digital or data stream. The overall aesthetic is high-tech and scientific, fitting for a biochemistry award.

Second Award - Junior Division
Biochemistry

Mohammad Khan

Bright Horizon Academy
Advisor: N. Naserelddin

Second Award - Junior Division
Biomedical/Health Sciences, and
Biomedical Engineering

The background of the slide is a dark, abstract composition. It features numerous thin, diagonal lines of varying lengths and colors, primarily in shades of green and blue, creating a sense of motion and depth. These lines are set against a dark, almost black background. In the lower portion of the image, there are faint, vertical columns of binary code (0s and 1s) in a light green color, which appear to be part of a digital or data-themed aesthetic.

Second Award - Junior Division
Biomedical/Health Sciences, and
Biomedical Engineering

Aliza Abadi

San Diego Hebrew Day School
Advisor: J. Rivard

Second Award - Junior Division
Biomedical/Health Sciences, and
Biomedical Engineering

Sidhaarth Parthiban

The Cambridge School
Advisor: M. Mayne

Second Award - Junior Division
Biomedical/Health Sciences, and
Biomedical Engineering

Sara Singer

San Diego Hebrew Day School
Advisor: J. Rivard

Second Award - Junior Division

Chemistry

The background of the slide is a dark, almost black, space filled with abstract, glowing light streaks. These streaks are primarily in shades of green and blue, radiating from the bottom and sides towards the top. The overall effect is reminiscent of a digital or data environment, with some faint, vertical lines of binary code (0s and 1s) visible in the lower half of the image.

Second Award - Junior Division
Chemistry

Myla Fitzgerald

De Portola Middle School
Advisor: M. Bridges

Second Award - Junior Division
Chemistry

Brooklyn Hellbusch

St. Gregory the Great Catholic School
Advisor: C. Girard

Second Award - Junior Division
Chemistry

Stasha Raschtschenia

Mt. Helix Academy
Advisor: K. MacDonald

Second Award - Junior Division
Chemistry

Alexandra Wrotslavsky

San Diego Hebrew Day School
Advisor: J. Rivard

Second Award - Junior Division
Chemistry

John-Paul Zwolinski

St. Gregory the Great Catholic School
Advisor: C. Girard

Second Award - Junior Division
**Computational Biology and
Bioinformatics**



Second Award - Junior Division
Computational Biology and
Bioinformatics

Pavishya Ramesh
Pranavi Kandula

Oak Valley Middle School
Advisor: R. Marudharaju

Second Award - Junior Division

Computer Science and Systems Software



Second Award - Junior Division
Computer Science and Systems Software

Samarth Vaka
Avni Chavan

Oak Valley Middle School
Advisor: R. Vaka

Second Award - Junior Division
Earth and Environmental Sciences



Second Award - Junior Division
Earth and Environmental Sciences

Frankie Alcanciado

Nazareth School
Advisor: M. Reed

Second Award - Junior Division
Earth and Environmental Sciences

Mia Bi

La Jolla Country Day School
Advisor: N. Parker

Second Award - Junior Division
Earth and Environmental Sciences

Uma Onwuchekwa

De Portola Middle School
Advisor: M. Bridges

Second Award - Junior Division
Earth and Environmental Sciences

Medha Ravi

The Rhoades School
Advisor: R. Hunker

Second Award - Junior Division
Earth and Environmental Sciences

Andres Roa Albarracin

St. Mary Star of the Sea School
Advisor: B. Klicsu

Second Award - Junior Division
Earth and Environmental Sciences

Amelie Roy

San Diego French American School
Advisor: A. Mobley

Second Award - Junior Division
Earth and Environmental Sciences

Siri Tipirneni

Carmel Valley Middle School
Advisor: S. Fredin

Second Award - Junior Division
Earth and Environmental Sciences

Matthew Yang

The Cambridge School High School
Advisor: M. Mayne

Second Award - Junior Division

Engineering:

Electrical, Mechanical, and Robotics

Second Award - Junior Division
Engineering:
Electrical, Mechanical, and Robotics

Dylan Green

The Rhoades School
Advisor: R. Hunker

Second Award - Junior Division
Engineering:
Electrical, Mechanical, and Robotics

Joie Green

Gillispie School
Advisor: B. Belsha

Second Award - Junior Division

Engineering:

Electrical, Mechanical, and Robotics

Jumana Kadry

Bright Horizon Academy

Advisor: N. Naserelddin

Second Award - Junior Division

Engineering:

Electrical, Mechanical, and Robotics

Issachar Miller

San Diego Hebrew Day School

Advisor: J. Rivard

Second Award - Junior Division
Engineering:
Electrical, Mechanical, and Robotics

Zackaria Ouchmame

Bright Horizon Academy
Advisor: N. Nasereldin

Second Award - Junior Division
Engineering:
Electrical, Mechanical, and Robotics

Ayelet Ron

La Jolla Country Day School
Advisor: M. Bessler

Second Award - Junior Division

Engineering:

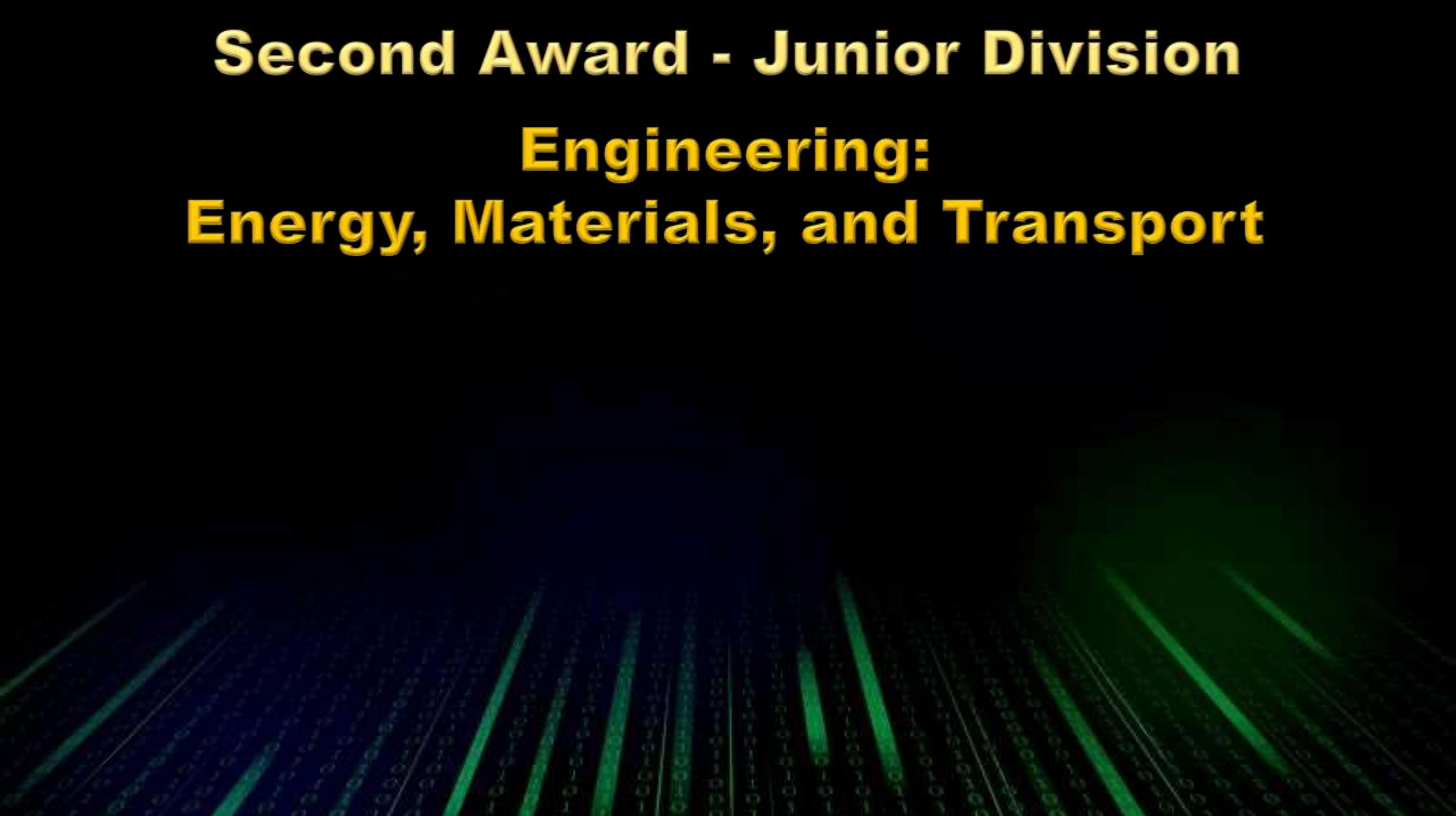
Electrical, Mechanical, and Robotics

Ryan Zhuang

La Jolla Country Day School

Advisor: M. Bessler

Second Award - Junior Division
Engineering:
Energy, Materials, and Transport

The background of the slide is a dark, abstract composition. It features numerous thin, diagonal lines in shades of green and blue, creating a sense of motion and depth. Interspersed among these lines are vertical columns of small, glowing green characters, resembling binary code (0s and 1s). The overall effect is a futuristic, digital aesthetic.

Second Award - Junior Division
Engineering:
Energy, Materials, and Transport

Eva Allen

De Portola Middle School
Advisor: M. Bridges

Second Award - Junior Division
Engineering:
Energy, Materials, and Transport

Lachlan Brooks

La Jolla Country Day School
Advisor: M. Bessler

Second Award - Junior Division
Engineering:
Energy, Materials, and Transport

Aviv Nahumzon

San Diego Hebrew Day School
Advisor: J. Rivard

Second Award - Junior Division
Engineering:
Energy, Materials, and Transport

Chloe Schuh

The Children's School
Advisor: T. Brown

Second Award - Junior Division

Microbiology



Second Award - Junior Division
Microbiology

Abby Anderson
Cooper Fontaine

St. Peter the Apostle Catholic School
Advisor: M. Berens

Second Award - Junior Division
Microbiology

James Cao
Vera Muller

Muirlands Middle School
Advisor: L. Trombley

Second Award - Junior Division
Microbiology

Ida Hammad

Bright Horizon Academy
Advisor: N. Naserelddin

Second Award - Junior Division
Microbiology

Lana Robertson

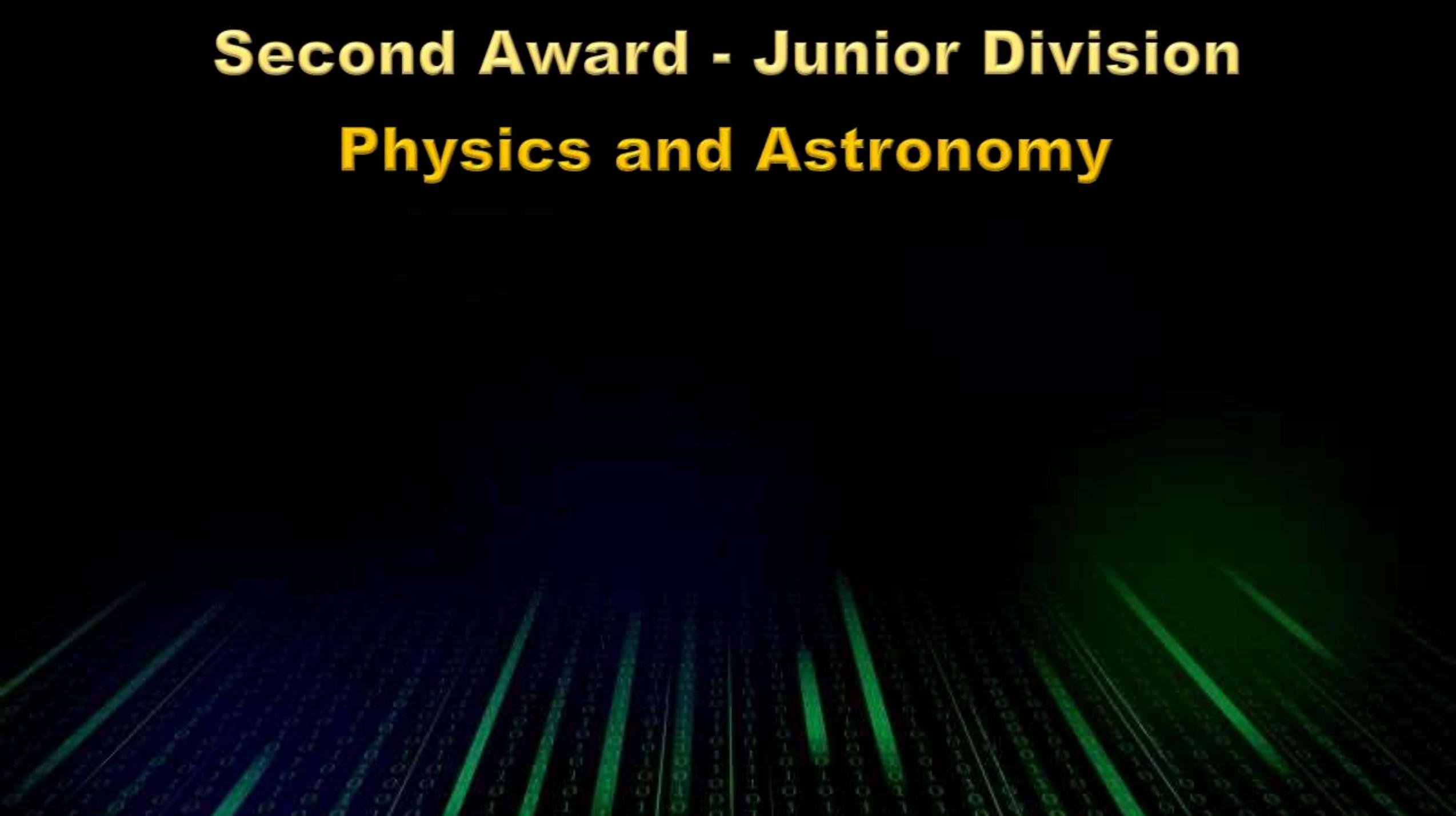
Mt. Helix Academy
Advisor: K. MacDonald

Second Award - Junior Division
Microbiology

Zoe Zwolinski

St. Gregory the Great Catholic School
Advisor: C. Girard

Second Award - Junior Division
Physics and Astronomy

The background of the slide is a dark, abstract composition. It features numerous thin, diagonal streaks of light in shades of green and blue, creating a sense of depth and movement. Interspersed among these streaks are faint, vertical columns of binary code (0s and 1s), which are more prominent in the lower half of the image. The overall effect is a futuristic, digital aesthetic.

Second Award - Junior Division
Physics and Astronomy

Cole Ceresia

St. Gregory the Great Catholic School
Advisor: C. Girard

Second Award - Junior Division
Physics and Astronomy

Aaron Motola

San Diego Hebrew Day School
Advisor: J. Rivard

Second Award - Junior Division
Physics and Astronomy

Quinn Penstone-Smith

De Portola Middle School
Advisor: M. Bridges

Second Award - Junior Division
Physics and Astronomy

Esther Sanchez

Extraordinary Private Home School
Advisor: S. Sanchez

Second Award - Junior Division
Physics and Astronomy

Leah Vinck

Nazareth School
Advisor: M. Reed

Second Award - Junior Division
Plant Sciences

The background of the slide is a dark, abstract composition. It features numerous thin, diagonal streaks in shades of green and blue, creating a sense of motion and depth. Interspersed among these streaks are vertical columns of faint, glowing binary code (0s and 1s), reminiscent of a digital rain or data stream effect.

Second Award - Junior Division
Plant Sciences

Devyn Delacruz

St. Michael's School - Poway
Advisor: J. Poling

Second Award - Junior Division
Plant Sciences

Ibrahim Essa

Bright Horizon Academy
Advisor: N. Naserelddin

Second Award - Junior Division
Plant Sciences

Jack Nash

Nazareth School
Advisor: M. Reed

Second Award - Junior Division
Plant Sciences

Ella Raspotnik

The Children's School
Advisor: T. Brown

Second Award - Junior Division
Plant Sciences

Ava Trench

St. Michael's School - Poway
Advisor: J. Poling

Second Award - Junior Division

Product Testing



Second Award - Junior Division
Product Testing

Victoria Dougherty

Chula Vista Middle School
Advisor: T. Tom

Second Award - Junior Division
Product Testing

Elisheva Ellis

San Diego Hebrew Day School
Advisor: J. Rivard

Second Award - Junior Division
Product Testing

Esmeralda Fonseca

Nazareth School
Advisor: M. Reed

Second Award - Junior Division
Product Testing

Jacob Lowry

Nazareth School
Advisor: M. Reed

Second Award - Junior Division
Product Testing

Marty Meza

Nazareth School
Advisor: M. Reed

Second Award - Junior Division
Product Testing

Andrea Salmon

Nazareth School
Advisor: M. Reed

Second Award - Junior Division
Product Testing

Isabella Scherer

Nazareth School
Advisor: M. Reed

Second Award
Senior Division

**Second Award - Senior Division
Behavioral and Social Sciences**

The background features a dark teal to black gradient. Overlaid on this are several wavy, undulating lines in a lighter teal color. On the right side, there is a vertical column of a grid of small, light blue dots that appears to be receding or curving away, creating a sense of depth and movement.

**Second Award - Senior Division
Behavioral and Social Sciences**

Luke Ceasar

**Central Union High School
Advisor: L. Rueda**

**Second Award - Senior Division
Behavioral and Social Sciences**

Spencer Foss

**San Diego Jewish Academy
Advisor: P. Hagarman**

**Second Award - Senior Division
Behavioral and Social Sciences**

Izel Garcia

**Central Union High School
Advisor: L. Rueda**

Second Award - Senior Division
Biochemistry

The background features a dark teal to black gradient. Overlaid on this are several wavy, undulating lines in a lighter teal color. A prominent feature is a grid of small, light blue dots that forms a curved, funnel-like shape on the right side of the image, tapering towards the center.

Second Award - Senior Division
Biochemistry

Chloe Wang

Canyon Crest Academy
Advisor: E. Gerstin

Second Award - Senior Division
Biomedical/Health Sciences, and
Biomedical Engineering

The background features a dark blue gradient with intricate, wavy patterns of lighter blue and cyan. These patterns resemble a grid of dots or a mesh that has been distorted into fluid, undulating shapes, creating a sense of depth and movement. The overall aesthetic is modern and technical, fitting for a scientific or engineering award.

**Second Award - Senior Division
Biomedical/Health Sciences, and
Biomedical Engineering**

Ananya Asudani

**Del Norte High School
Advisor: D. Asudani**

**Second Award - Senior Division
Biomedical/Health Sciences, and
Biomedical Engineering**

Aditya Bisain

**Canyon Crest Academy
Advisor: E. Gerstin**

**Second Award - Senior Division
Biomedical/Health Sciences, and
Biomedical Engineering**

**Kevin Du
David Lee**

**Del Norte High School
Advisor: J. Lo**

**Second Award - Senior Division
Biomedical/Health Sciences, and
Biomedical Engineering**

Isabel Ji

**Torrey Pines High School
Advisor: K. DeVico**

**Second Award - Senior Division
Biomedical/Health Sciences, and
Biomedical Engineering**

Rhea Rupareliya

**Canyon Crest Academy
Advisor: E. Gerstin**

**Second Award - Senior Division
Biomedical/Health Sciences, and
Biomedical Engineering**

Eshika Pallapotu

**Del Norte High School
Advisor: R. Pallapotu**

Second Award - Senior Division
Cellular and Molecular Biology

The background features a dark teal to black gradient with intricate, wavy patterns of fine lines and a grid of small, light blue dots that create a sense of depth and movement, resembling a digital or scientific visualization.

Second Award - Senior Division
Cellular and Molecular Biology

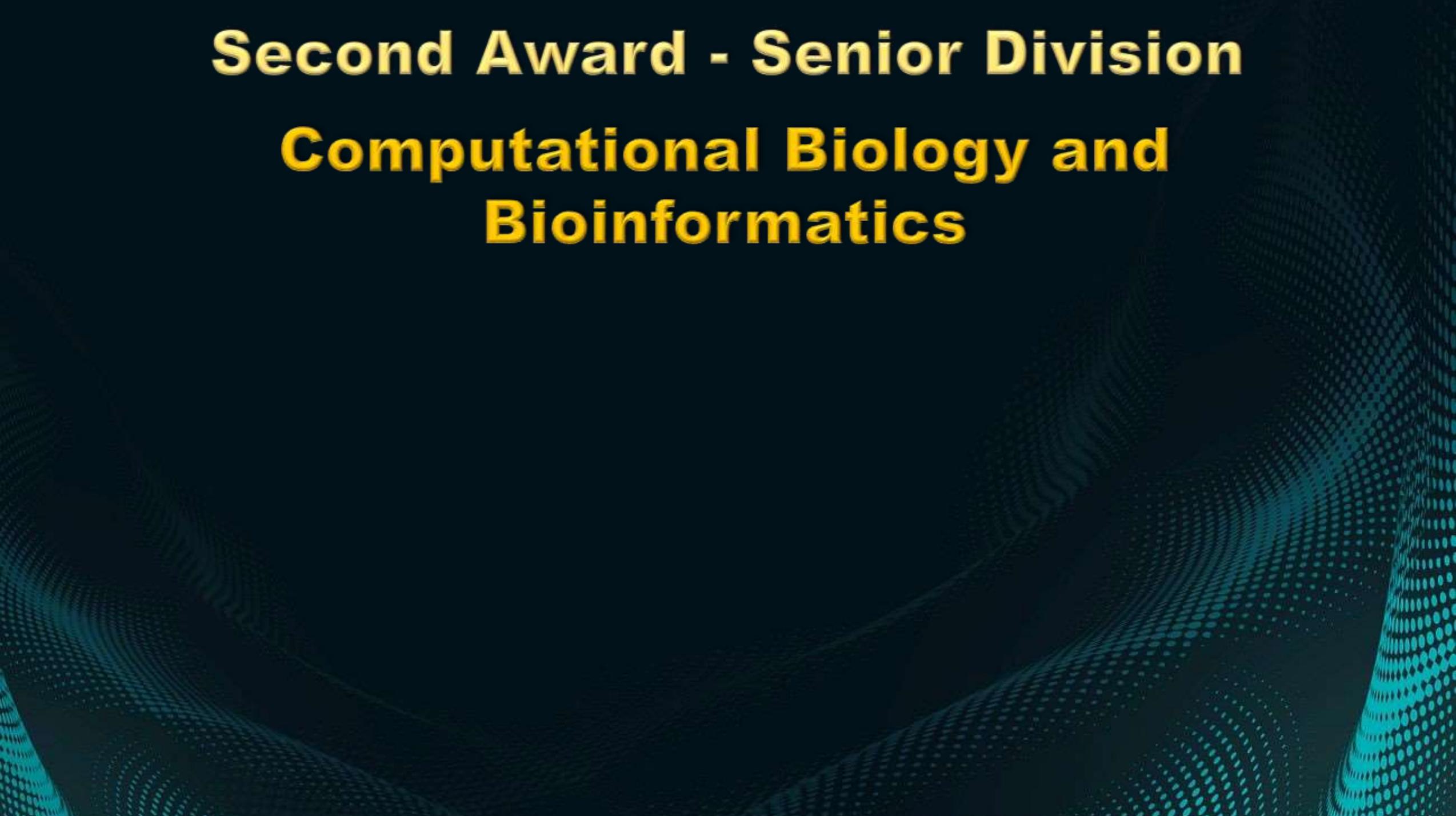
Alyna Figueroa

Central Union High School
Advisor: L. Rueda

Second Award - Senior Division
Cellular and Molecular Biology

Yunshu Hao

Sage Creek High School
Advisor: T. Andersson



Second Award - Senior Division
Computational Biology and
Bioinformatics

Second Award - Senior Division
Computational Biology and
Bioinformatics

Arunraj Jeyaprasakash

Canyon Crest Academy
Advisor: E. Gerstin

Second Award - Senior Division
Computational Biology and
Bioinformatics

Emma Kao

The Bishop's School
Advisor: M. Jaiclin

Second Award - Senior Division
Computational Biology and
Bioinformatics

Gautam Kathiravan

Canyon Crest Academy
Advisor: D. Celniker

Second Award - Senior Division
Computational Biology and
Bioinformatics

Ronit Khushu

Francis Parker School
Advisor: J. Pierce

Second Award - Senior Division
Computational Biology and
Bioinformatics

Adham Sadek

Canyon Crest Academy
Advisor: A. Ashour

Second Award - Senior Division
Computational Biology and
Bioinformatics

Anne Sun

San Marcos High School
Advisor: S. Shade

Second Award - Senior Division
Computational Biology and
Bioinformatics

James Sun

Canyon Crest Academy
Advisor: E. Gerstin

Second Award - Senior Division
Computational Biology and
Bioinformatics

Kailin Xuan

The Bishop's School
Advisor: D. Cameron

Second Award - Senior Division
Computational Biology and
Bioinformatics

Ryan Yuan

Canyon Crest Academy
Advisor: E. Gerstin

Second Award - Senior Division

Computer Science and Systems Software

Second Award - Senior Division
Computer Science and Systems Software

Aneesh Devulapalli

Canyon Crest Academy
Advisor: D. Celniker

Second Award - Senior Division
Computer Science and Systems Software

Kaelyn Liu

Canyon Crest Academy
Advisor: K. Shakeri

Second Award - Senior Division
Computer Science and Systems Software

Raunak Mondal

Del Norte High School
Advisor: J. Cheskaty

Second Award - Senior Division
Computer Science and Systems Software

Wonhee Ryu

Canyon Crest Academy
Advisor: K. Shakeri

Second Award - Senior Division
Computer Science and Systems Software

Ethan Sun

The Bishop's School
Advisor: M. Jaiclin

Second Award - Senior Division
Computer Science and Systems Software

Olina Xia

Rancho Bernardo High School
Advisor: B. Xia

Second Award - Senior Division
Computer Science and Systems Software

Rex Tran

Scripps Ranch High School
Advisor: P. Fowler

Second Award - Senior Division
Earth and Environmental Sciences

The background of the slide features a dark teal to black gradient. Overlaid on this are several wavy, undulating patterns in a lighter teal color. On the right side, there is a prominent pattern of small, light blue dots arranged in a grid that follows the curvature of the wavy lines, creating a sense of depth and movement.

Second Award - Senior Division
Earth and Environmental Sciences

Daniela Gallegos

Central Union High School
Advisor: L. Rueda

Second Award - Senior Division
Earth and Environmental Sciences

Naina Gandevia

Holtville High School
Advisor: B. Sorenson

Second Award - Senior Division
Earth and Environmental Sciences

Natalie Hernandez
Elijah Hutchins

Bonita Vista High School
Advisor: J. Ekstein

Second Award - Senior Division
Earth and Environmental Sciences

Srija Sengupta

Westview High School
Advisor: S. Halander



Second Award - Senior Division
Engineering:
Electrical, Mechanical, and Robotics

Second Award - Senior Division
Engineering:
Electrical, Mechanical, and Robotics

Khushee Goel

Scripps Ranch High School
Advisor: P. Fowler

Second Award - Senior Division
Engineering:
Electrical, Mechanical, and Robotics

Sanya Kapoor

Del Norte High School
Advisor: S. Kapoor

Second Award - Senior Division
Engineering:
Electrical, Mechanical, and Robotics

Rohin Sood

Del Norte High School
Advisor: A. Callicott



Second Award - Senior Division
Engineering:
Energy, Materials, and Transport

Second Award - Senior Division
Engineering:
Energy, Materials, and Transport

Collin Giometti

San Marcos High School
Advisor: S. Shade

Second Award - Senior Division
Microbiology

The background features a dark teal to black gradient with abstract, wavy patterns of lighter teal and blue. A prominent feature is a grid of small, light blue dots that forms a curved, tunnel-like shape on the right side of the image, receding into the distance.

Second Award - Senior Division
Microbiology

Jihoo Hyun

Canyon Crest Academy
Advisor: E. Gerstin

Second Award - Senior Division
Physics and Astronomy

The background features a dark teal to black gradient with intricate, wavy patterns of fine lines and a grid of small, light blue dots that create a sense of depth and movement, resembling a digital or scientific visualization.

Second Award - Senior Division
Physics and Astronomy

Rohan Badal

University City High School
Advisor: S. Badal

Second Award - Senior Division
Physics and Astronomy

Jennifer Chen

Canyon Crest Academy
Advisor: A. Siegel

Second Award - Senior Division
Physics and Astronomy

Krish Mandadi

Canyon Crest Academy
Advisor: S. Mandadi

Second Award - Senior Division
Plant Sciences

The background of the slide features a dark teal and blue color palette. It is decorated with abstract, wavy patterns that resemble liquid or smoke. Overlaid on these patterns is a grid of small, light blue dots that vary in density and brightness, creating a sense of depth and movement. The overall aesthetic is modern and scientific.

Second Award - Senior Division
Plant Sciences

Yesica Marquez
Isabella Arca

Bonita Vista High School
Advisor: J. Ekstein

Second Award - Senior Division
Plant Sciences

Haley Lytle

Bonita Vista High School
Advisor: J. Ekstein

Second Award - Senior Division
Plant Sciences

Gian Monroybeltran
Alena Ramirez

Bonita Vista High School
Advisor: J. Ekstein

Second Award - Senior Division
Plant Sciences

Maxwell Rhoades

Bonita Vista High School
Advisor: J. Ekstein

**Congratulations
to the
Second Award Winners**